ORDER NO. SD7803-1326

# Service Manual

QUARTZ Synthesizer
Direct Drive Turntable System

# SL-150MK2 (M), (MC)

- The model SL-150MK2 (M) is available in America only.
- The model SL-150MK2 (MC) is available in Canada only.

**The SL-150MK2 is the same as the SL-1500MK2 in every aspect, but comes only without tonearm section.**

Note * This manual should be filed with the service manual for model **SL-1500MK2** (M, MC) (ORDER NO. SD7709-1271)

* When servicing model SL-150MK2, this service manual and **SL-1500MK2** (M, MC) (ORDER NO. SD7709-1271) service manual should be used together.

## CHANGES

## ■ REPLACEMENT PARTS LIST

SL-150MK2 (M) →[M]
SL-150MK2 (MC)→[MC]

| Ref. No. | Change of Part No. |  | Part Name & Description | Per Set | Remarks |
|---|---|---|---|---|---|
|  | ORDER No. SD7709-1271 | → **SL-150MK2 (M)**<br>**SL-150MK2 (MC)** |  |  |  |
|  |  | **TRANSFORMER** |  |  |  |
| T1 | SLT60EU3B | SLT60EU4B | Power Transformer | 1 |  |
|  |  | **CABINET and CHASSIS PARTS** |  |  |  |
| 6 | SFNN155M01 | SFNN159M01 [M] | Name Plate | 1 | •○ |
|  | SFNN155C01 | SFNN159C01 [MC] | Name Plate | 1 | •○ |
| 8 | RJA10A | QFC1201MA | AC Cord | 1 |  |
| 12 | SFDH028-01 | Deletion | -------------------- | 0 |  |
| 14 | SFUM170-06 | Deletion | -------------------- | 0 |  |
| 15 | SFUM170-11 | Deletion | -------------------- | 0 |  |
| 15-1 | XTN3+14BFZ | Deletion | -------------------- | 0 |  |
| 15-2 | XWG3 | Deletion | -------------------- | 0 |  |
| 16 | XTN3+8B | Deletion | -------------------- | 0 |  |
| 27 | SFUM155M01 | SFUM159-01 | Panel | 1 | ○ |
| 35 | SFUK190-01E | Deletion | -------------------- | 0 |  |
| 35-1 | SFUP190-02 | Deletion | -------------------- | 0 |  |
| 36 | SFAU132-01E | Deletion | -------------------- | 0 |  |
| 37 | SFUP132-09 | Deletion | -------------------- | 0 |  |
| 37-1 | XSN3+23FZS | Deletion | -------------------- | 0 |  |
| 37-2 | XSN3+14S | Deletion | -------------------- | 0 |  |
| 37-3 | XWG3 | Deletion | -------------------- | 0 |  |
| 37-4 | XWG3 | Deletion | -------------------- | 0 |  |
| 37-5 | XTN4+35B | Deletion | -------------------- | 0 |  |
| 37-6 | XTN3+35B | Deletion | -------------------- | 0 |  |
| 37-7 | XWG4 | Deletion | -------------------- | 0 |  |

**Technics**

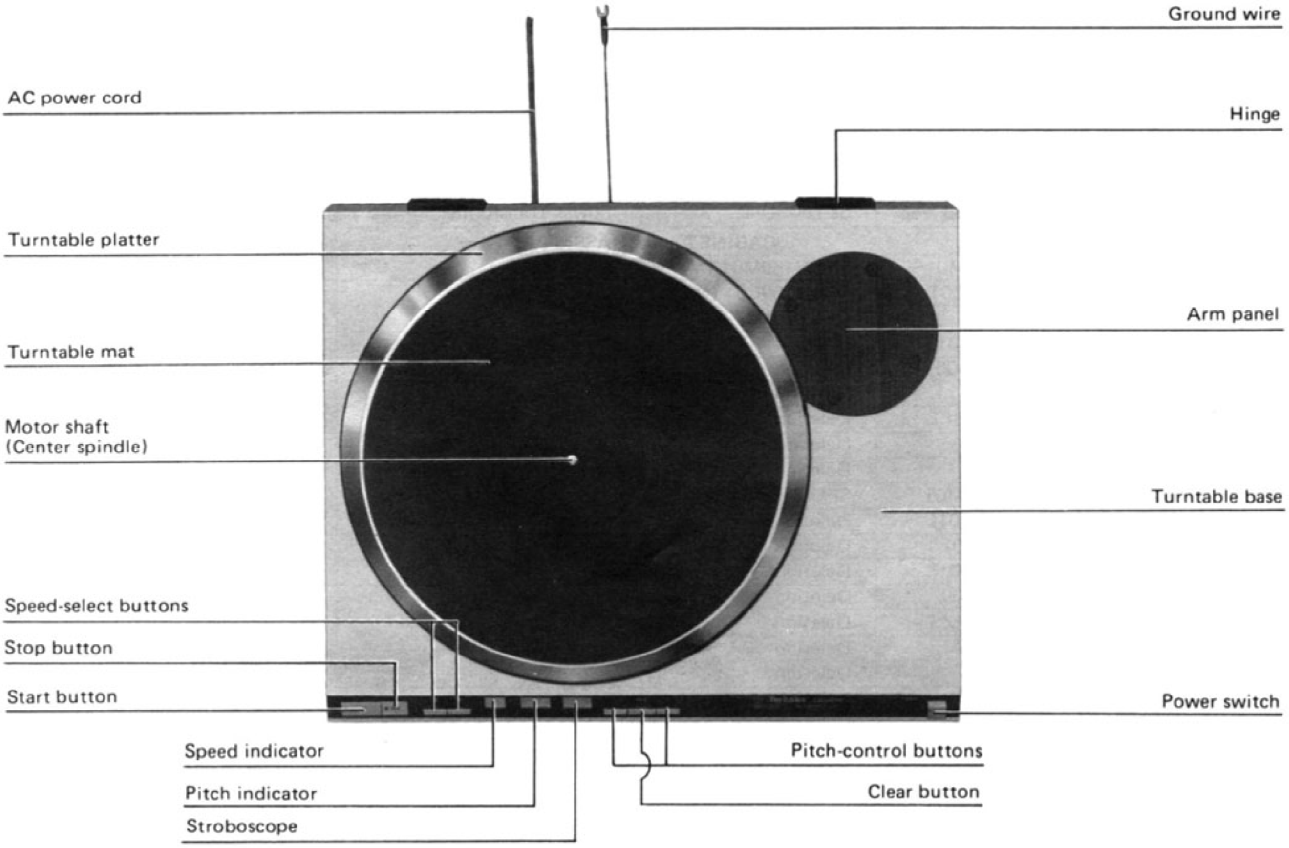
Panasonic Company
Division of Matsushita Electric
Corporation of America
One Panasonic Way, Secaucus,
New Jersey 07094

Panasonic Hawaii, Inc.
320 Waiakamilo Road, Honolulu,
Hawaii 96817

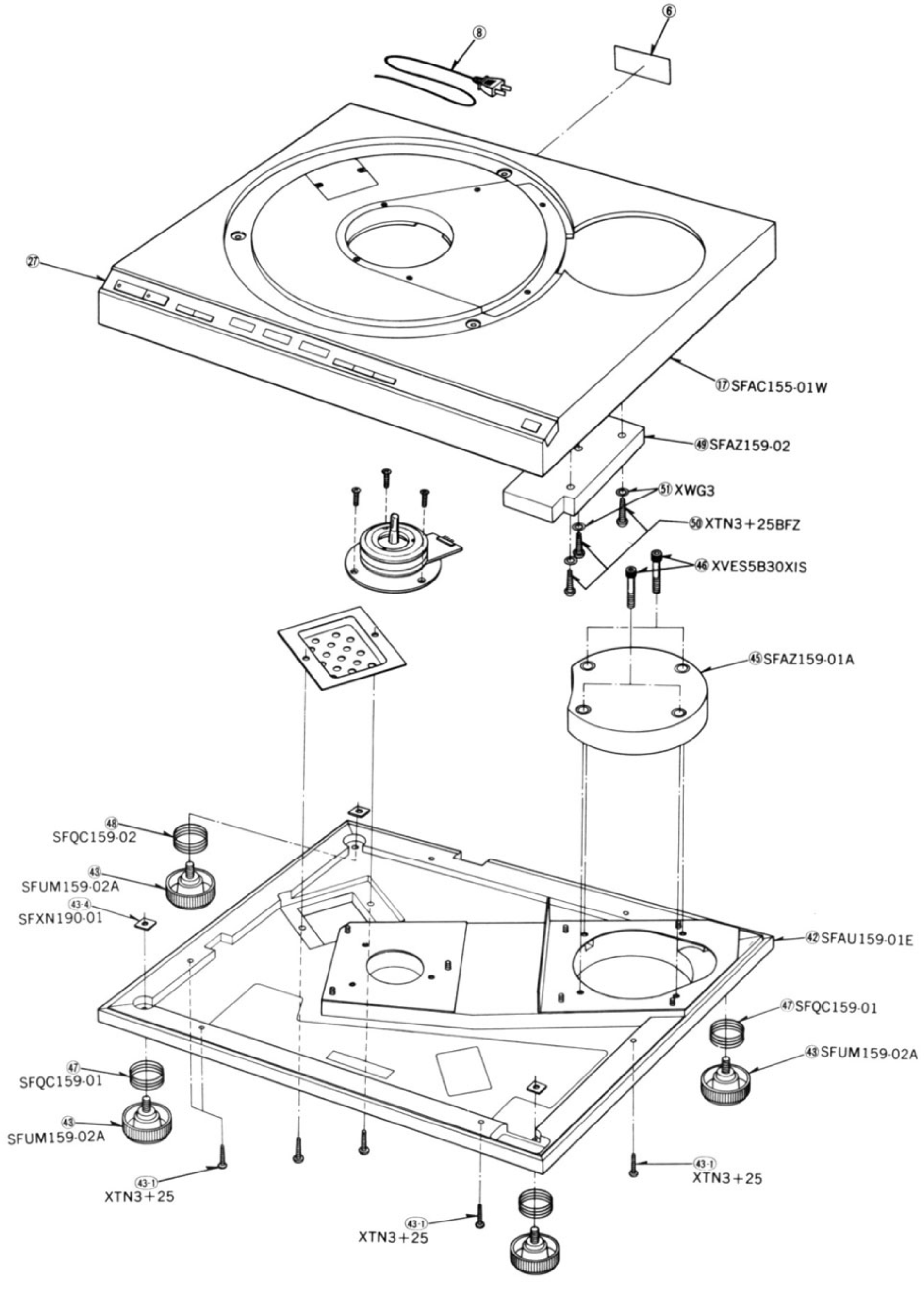
Matsushita Electric of Canada Ltd.
40 Ronson Drive, Rexdale,
Ontario, Canada M9W 1B5

| Ref. No. | Change of Part No. |  | Part Name & Description | Per Set |  | Remarks |
|---|---|---|---|---|---|---|
|  | ORDER NO. SD7709-1271 | **SL-150MK2 (M)**<br>**SL-150MK2 (MC)** |  |  |  |  |
| 37-8 | XWG3 | Deletion | ................... | 0 |  |  |
| 38 | SFAZ132-01 | Deletion | ................... | 0 |  |  |
| 38-1 | XVG4C18 | Deletion | ................... | 0 |  |  |
| 38-2 | XTN4+10B | Deletion | ................... | 0 |  |  |
| 39 | SFGA132-01 | Deletion | ................... | 0 |  |  |
| 40 | SFQH132-01 | Deletion | ................... | 0 |  |  |
| 41 | SFXG170-02E | Deletion | ................... | 0 |  |  |
| 42 | SFAU132-02A | SFAU159-01E | Bottom Cover | 1 |  | ○ |
| 43 | SFGA170-02A | SFUM159-02A | Insulator | 4 |  | ○ |
| 43-1 | XTN3+20 | XTN3+25 | Screw, Bottom Cover | 7 |  |  |
| 43-2 | XTN3+10BFZ | Deletion | ................... | 0 |  |  |
| 43-4 | XWG4 | SFXN190-01 | Nut, Insulator | 4 |  |  |
| 44 | XTN3+8B | Deletion | ................... | 0 |  |  |
| 45 | Addition | SFAZ159-01A | Arm Panel | 2 |  | ○ |
| 46 | Addition | XVES5B30XIS | Screw, Arm Panel | 4 |  |  |
| 47 | Addition | SFQC159-01 | Spring, Insulator | 3 |  | ○ |
| 48 | Addition | SFQC159-02 | Spring, Insulator | 1 |  | ○ |
| 49 | Addition | SFAZ159-02 | Reinforcement | 1 |  | ○ |
| 50 | Addition | XTN3+25BFZ | Screw, Reinforcement | 3 |  |  |
| 51 | Addition | XWG3 | Washer, Reinforcement | 3 |  |  |

## ■ PARTS IDENTIFICATION


Ground wire
AC power cord
Hinge
Turntable platter
Arm panel
Turntable mat
Motor shaft
(Center spindle)
Turntable base
Speed-select buttons
Stop button
Start button
Power switch
Speed indicator
Pitch-control buttons
Pitch indicator
Clear button
Stroboscope

## ■ EXPLODED VIEW

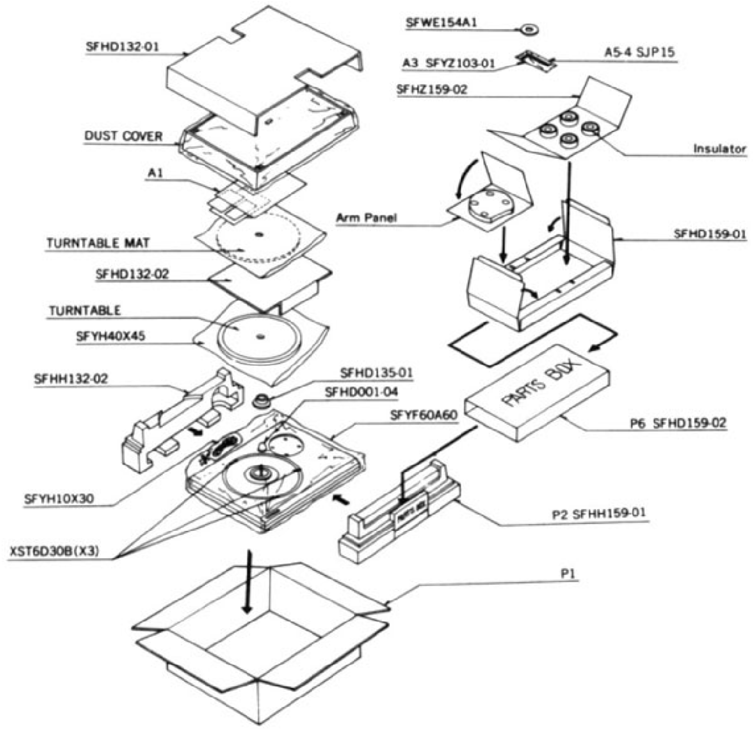

⑧
⑥
㉗
⑰SFAC155-01W
㊾SFAZ159-02
(51) XWG3
㊿XTN3+25BFZ
㊻XVES5B30XIS
㊺SFAZ159-01A
㊽ SFQC159-02
㊸ SFUM159-02A
43-4 SFXN190-01
㊷SFAU159-01E
㊼SFQC159-01
㊸SFUM159-02A
㊼ SFQC159-01
㊸ SFUM159-02A
43-1 XTN3+25
43-1 XTN3+25
43-1 XTN3+25

## ■ REPLACEMENT PARTS LIST (ACCESSORIES AND PACKING PARTS)

Note: SL-150MK2 (M) → [M]
SL-150MK2 (MC) → [MC]

| Ref. No. | Change of Part No. | | Part Name & Description | Per Set | | Remarks. |
|---|---|---|---|---|---|---|
| | ORDER NO. SD7709-1271 | **SL-150MK2 (M)**<br>**SL-150MK2 (MC)** | | | | |
| A1 | SFNU155M01 | SFNU159M01 [M] | Instruction Book | 1 | | ○ |
| | SFNU155C01 | SFNU159C01 [MC] | | | | |
| A3 | SFCFB20502 | SFYZ103-01 | Tool | 1 | | |
| A4 | SFWO010 | Deletion | -------------------- | 0 | | |
| A5 | SFPEV7803 | Deletion | -------------------- | 0 | | |
| A5-1 | SFPEV10005 | Deletion | -------------------- | 0 | | |
| A5-2 | SFPEV10009 | Deletion | -------------------- | 0 | | |
| A5-3 | SFPEN9200 | Deletion | -------------------- | 0 | | |
| A5-4 | SFYE05A06 | SJP15 | Polyethylene Bag | 2 | | |
| A6 | SFDK100G | Deletion | -------------------- | 0 | | |
| P1 | SFHP155M01 | SFHP159M01 [M] | Carton | 1 | | ○ |
| | SFHP155C01 | SFHP157A01 [MC] | | | | |
| P2 | SFHH132-01 | SFHH159-01 | Pad, Front | 1 | | ○ |
| P6 | SFHH170-03 | SFHD159-01 | Parts Box | 1 | | ○ |
| P7 | SFHD170-03 | SFHD159-02 | Pad, Arm Panel | 1 | | ○ |
| P7-1 | SFYC22A30 | Deletion | -------------------- | 1 | | |
| P10 | Addition | SFYC70A100 | Polyethylene Seat | 1 | | |

## ■ PACKINGS


SFWE154A1
SFHD132-01
A3 SFYZ103-01
A5-4 SJP15
SFHZ159-02
DUST COVER
Insulator
A1
Arm Panel
TURNTABLE MAT
SFHD159-01
SFHD132-02
TURNTABLE
SFYH40X45
PARTS BOX
SFHD135-01
SFHH132-02
SFHD001-04
SFYF60A60
P6 SFHD159-02
SFYH10X30
P2 SFHH159-01
XST6D30B(X3)
P1

Printed in Japan
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ORDER NO. SD7709-1271

# Service Manual

## QUARTZ Synthesizer Direct Drive Turntable System

## SL-1500MK2 (M, MC)

- The model SL-1500MK2 (M) is available in America only.
- The model SL-1500MK2 (MC) is available in Canada only.

**SPECIFICATIONS** (Specifications are subject to change without notice for further improvement)

| | |
|---|---|
| **General** | |
| **Power supply** | AC 120 V, 50 or 60 Hz |
| **Power consumption** | 12 W |
| **Dimensions (H x W x D)** | 14.5 x 45.3 x 38.4 cm (5-45/64 x 17-45/64 x 15-7/64 inches) |
| **Weight** | 11.8 kg (26.0 lb) |
| **Turntable section** | |
| **Type** | Quartz-phase-locked control direct drive turntable with quartz synthesizer pitch control, Manual play |
| **Drive method** | Direct Drive |
| **Motor** | Brushless DC motor |
| **Drive control method** | Quartz-phase-locked control |
| **Turntable platter** | Aluminum die-cast, diameter 33 cm (13"), weight 2.5 kg (5.5 lb.) |
| **Moment of inertia** | 340 kg·cm$^2$ (116 lb·in$^2$) |
| **Turntable speeds** | 33-1/3 and 45 r.p.m. |
| **Turntable speed fine adjustment** | Adjustable up to ±9.9% in 0.1% increments by digital indication |
| **Starting torque** | 1.5 kg·cm (1.3 lb·in) |
| **Build-up characteristics** | 90° or 1/4 rotation to 33-1/3 rpm |
| **Braking system** | Electronic brake |
| **Speed fluctuation due to load torque** | 0% within 1.5 kg·cm (1.3 lb·in) |
| **Speed drift** | Within 0.002% |
| **Wow and flutter** | 0.025% WRMS (JIS C5521)<br>±0.035% weighted zero to peak (DIN 45507) |

| | |
|---|---|
| **Rumble** | −50 dB (DIN 45539A)<br>−73 dB (DIN 45539B) |
| **Tonearm section** | |
| **Type** | Gimbal suspended universal "S" shaped tubular arm, static-balanced type |
| **Effective length** | 230 mm (9-1/16") |
| **Overhang** | 15 mm (19/32") |
| **Tracking error angle** | +3° at the outer groove of 30 cm (12") record<br>+1° at the inner groove of 30 cm (12") record |
| **Offset angle** | 21.5° |
| **Friction** | Less than 7 mg (lateral, vertical) |
| **Effective mass** | 22 g (with a cartridge weighting 6 g at 1.25 g stylus pressure) |
| **Tonearm height adjustment** | In 1mm steps to a range of 6 mm |
| **Adjustable stylus pressure range** | 0 ~ 3 g |
| **Cartridge weight range** | 5-11 g |
| **Cartridge mounting dimensions** | 12.7 mm (1/2") mounting space |
| **Headshell terminal lug** | 1.2 mm, for 4-pin terminal |
| **Headshell weight** | 9.5 g |

Weights and dimensions shown are approximate.

**Technics by Panasonic**

Panasonic Company
Division of Matsushita Electric
Corporation of America
One Panasonic Way, Secaucus,
New Jersey 07094

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320 Waiakamilo Road, Honolulu,
Hawaii 96817

Matsushita Electric of Canada Ltd.
40 Ronson Drive, Rexdale,
Ontario, Canada M9W 1B5

# ■ FEATURES

Encounter two separate isolation stages. The first stage effectively damps out harmful external vibrations which may reach the unit through its resting surface. The all-important turntable, motor and tonearm assembly are then supported on a second isolation system. These isolators are specially designed with material and springs of calculated, finely-tuned elasticity to absorb external vibrations.
Isolation from feedback lets you enjoy clear, transparent sound even at high volume levels.

**Technics unique motor construction in which the rotor of the motor is integrally formed with the turntable.**

**High torque motor delivering 1.5kg·cm makes it possible to reach 33-1/3 r.p.m. from standstill within 0.7 sec. (1/4 rotation) and to effect instantaneous speed change. (Fig. 1).**

**Superior load characteristic of 0 rotational deviation even at a stylus pressure of 300 g. (Fig. 2).**

**High performance with wow and flutter of only 0.025% (JIS C5521) and rumble of −73 dB (DIN 45539B).**
Since the development of the DD turntable, Technics has continually strived for further improvement of player performance and has introduced numerous high performance models on the market.
The SL-1500MK2 series is brought into being by combination of experience and research.
The characteristic values of rumble −73 dB (DIN 45539B) and wow and flutter of 0.025% (W.R.M.S JIS C5521) by far exceed the standards to which record albums are made.

**Quartz Controlled Rotation Accuracy**
The SL-1500MK2 utilizes the oscillation of a quartz crystal as a reference signal or source. This oscillation is not affected by temperature change or power fluctuations. By synchronizing the rotation of the turntable platter accurately to the reference signal, speed drift of the SL-1500MK2 is held within ±0.002%. This means that for a record with a playing time of 30 min, total playing time variation can amount to no more than 0.036 sec. This stable and accurate rotation sets a new standard of precision.
The accuracy under controlled operating conditions as in a listening room is about ±0.00001% as shown in Fig. 3.

**Highly sensitive universal tonearm.**
For the finest tracking sensitivity, the tonearm rests in a gimbal suspension equipped with two pairs of low friction pivot bearings. Gimbal suspension and low tonearm mass means that accurate tracking is possible at tracking forces as low as 0.25 grams. With enhanced rotational sensitivity of 7 mg. the tonearm is allowed free, gyroscopic movement to ensure flawless balance during tracking. The longer-than-usual effective tonearm length (9-1/16" or 230 mm, stylus to pivot) contributes to the arm's low tracking error, and this in turn facilitates the design of the anti-skating control for precise and reliable tracking. With this design, a single precise anti-skating scale counteracts side thrust for all types of styli.

**Arm height is adjustable within a range of 6 mm to accomodate varying cartridge dimensions.**

**Resonance dampened headshell with unique overhang adjuster.**

**Low capacitance phonocables.**

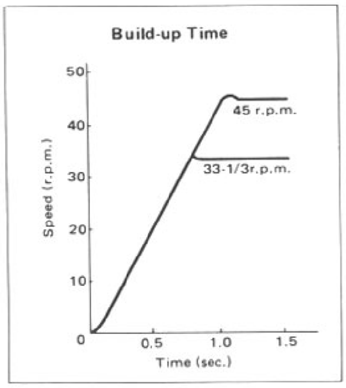


Fig. 1

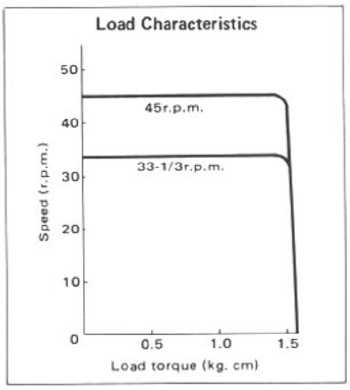


Fig. 2

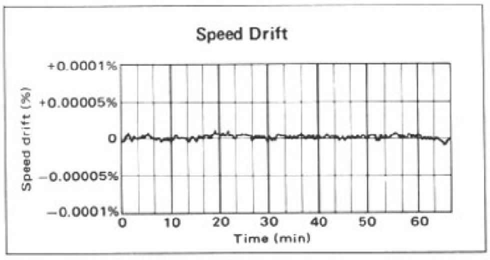


Fig. 3

# CROSS SECTION OF MOTOR PORTION AND DOUBLE INSULATOR

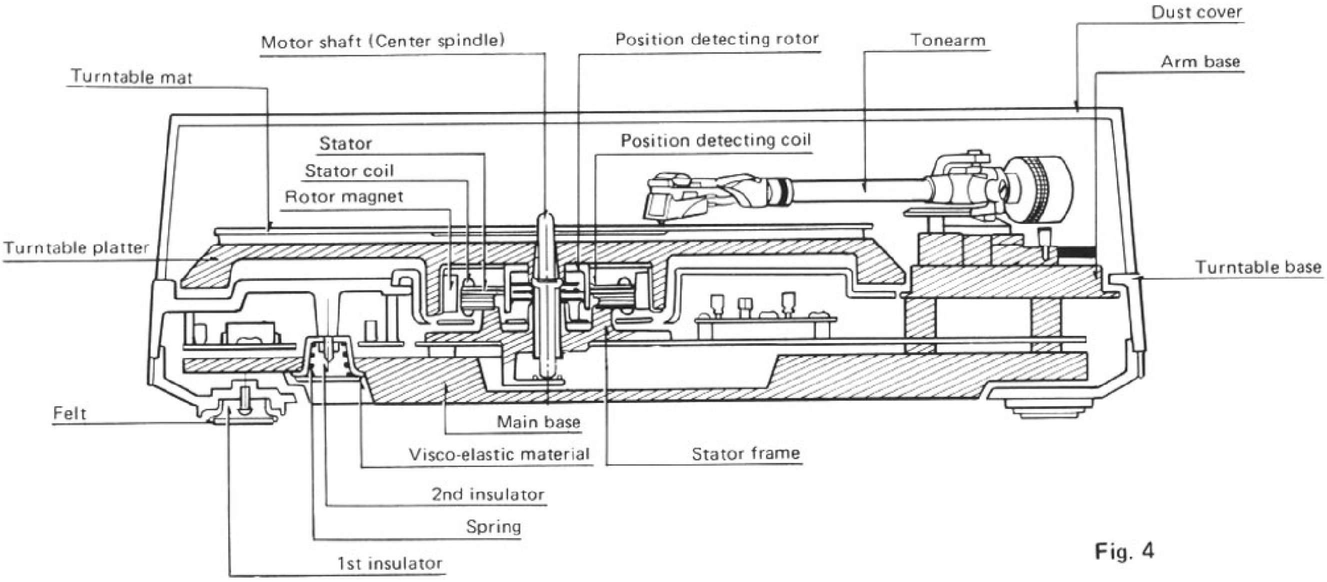

Dust cover
Motor shaft (Center spindle)
Position detecting rotor
Tonearm
Arm base
Turntable mat
Stator
Stator coil
Rotor magnet
Position detecting coil
Turntable platter
Turntable base
Felt
Main base
Visco-elastic material
Stator frame
2nd insulator
Spring
1st insulator

Fig. 4

# PARTS IDENTIFICATION

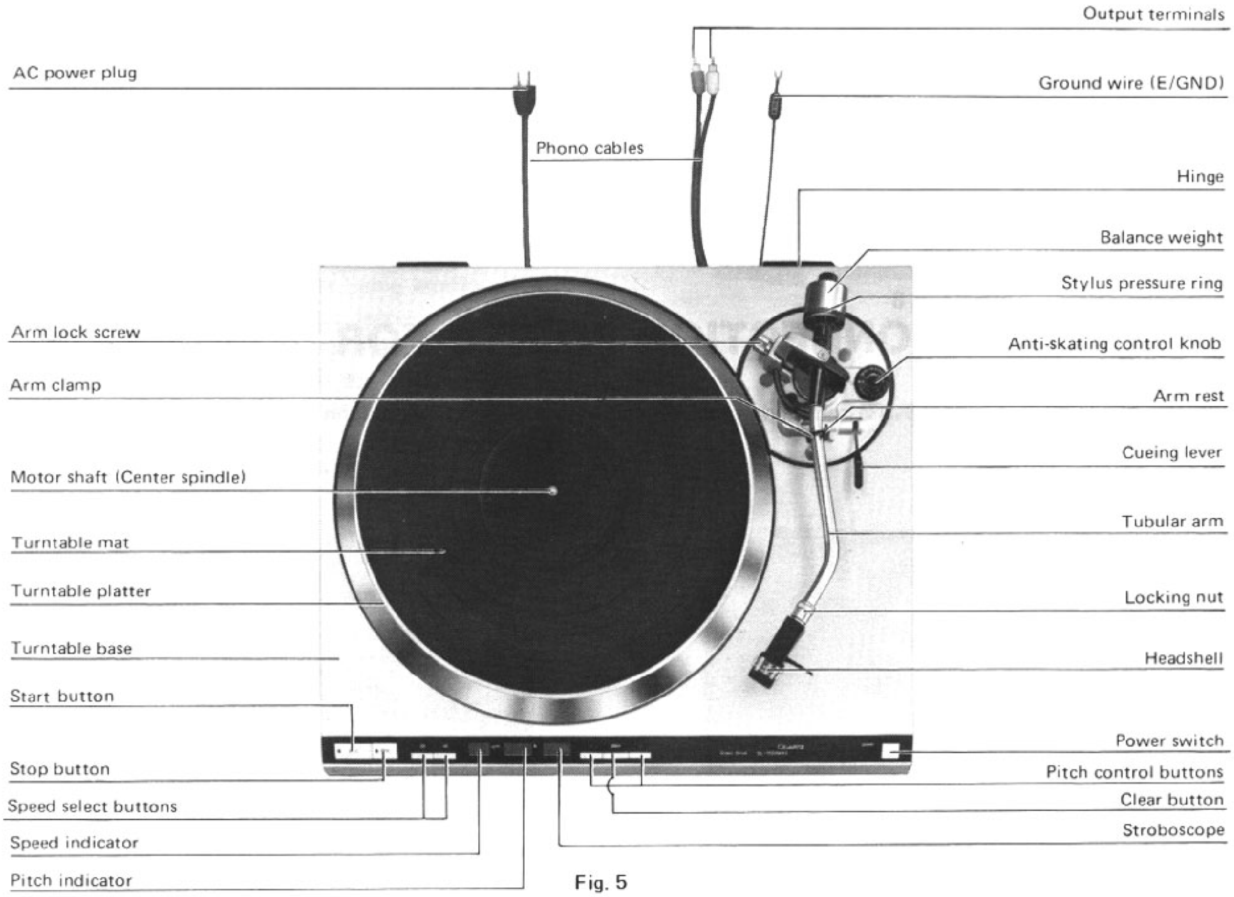

Output terminals
AC power plug
Ground wire (E/GND)
Phono cables
Hinge
Balance weight
Stylus pressure ring
Arm lock screw
Anti-skating control knob
Arm clamp
Arm rest
Cueing lever
Motor shaft (Center spindle)
Tubular arm
Turntable mat
Turntable platter
Locking nut
Turntable base
Headshell
Start button
Power switch
Stop button
Pitch control buttons
Speed select buttons
Clear button
Stroboscope
Speed indicator
Pitch indicator

Fig. 5

# ■ TO REMOVE CABINET AND BOTTOM COVER

1. Remove headshell and balance weight.
2. Clamp tone arm to the arm rest.
3. Remove turntable platter.
4. Close dust cover.
5. Turn unit upside down taking special care not to damage or scratch the dust cover.
6. Remove the 7 screws from bottom cabinet (Fig. 6).
7. Remove the 4 screws from main base (Fig. 7).
8. Holding the player firmly with both hands, to prevent separation of upper section (turntable base) from lower section (main base), turn it carefully upwards.
9. Remove dust cover.
10. Remove the 6 screws from the panel cover (Fig. 8).
11. Unplug the 2 plug-in connectors and 1 cord clamp (Fig. 9).
12. To remove the turntable base from the main base bottom section, turn cueing lever upward (cueing position) and move tone arm towards center of spindle. Top section can be lifted up easily.
13. To reassemble, perform steps 1 through 12 in reverse.

**Note:**

The turntable horizontally to the panel face is already adjusted before shipment.

If deviated, correct it by means of the adjust screws using a 5 mm box spanner.

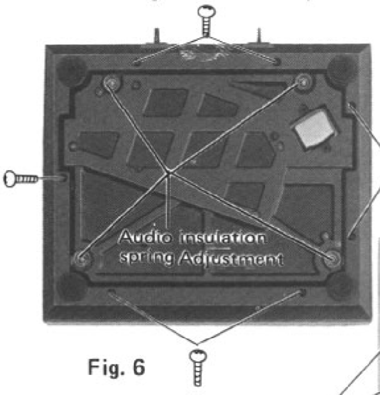


Fig. 6

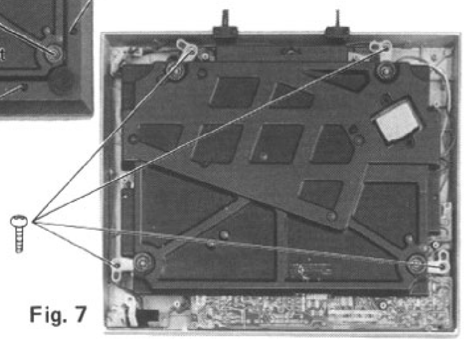


Fig. 7

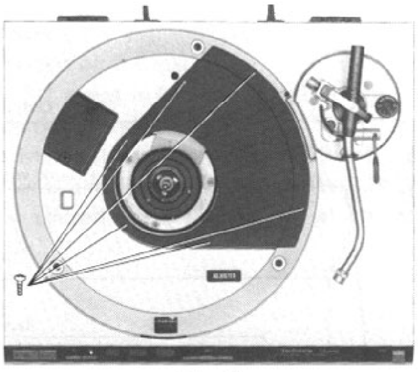


Fig. 8

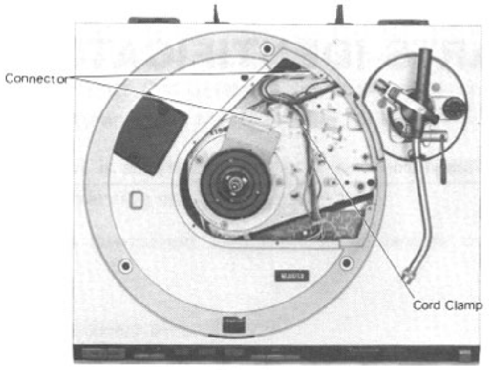


Fig. 9

# ■ CONNECTOR CONNECTION POINTS FOR INSPECTION

Connect the disassembled main unit and main base as shown in the Figure below.

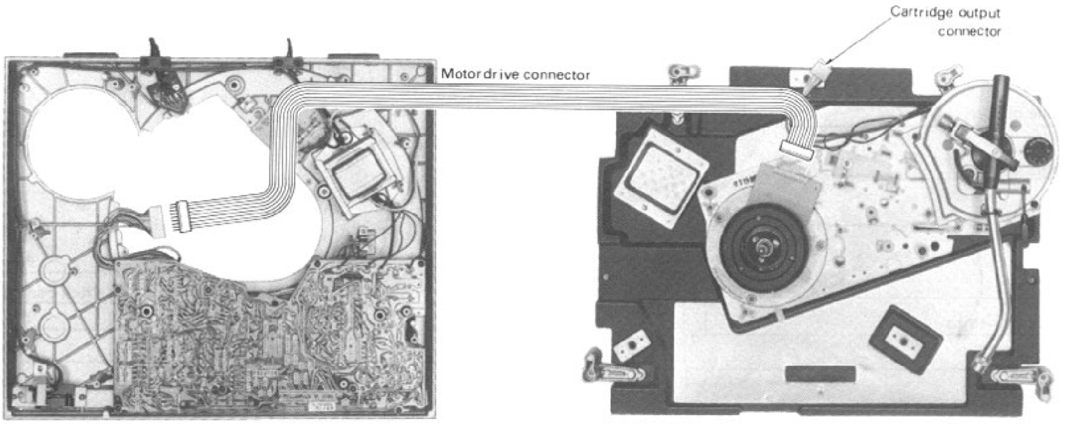


Fig. 10

# ■ ADJUSTMENTS-1

**Adjustment of the arm height. (See Fig. 11, 12)**

- This tonearm has been locked in the highest position before shipping from the factory, adjust the arm height according to your cartridge height.
- Loosen the arm lock screw. And push the arm pivot bearing support downward until the tonearm is paralled with the record surface.

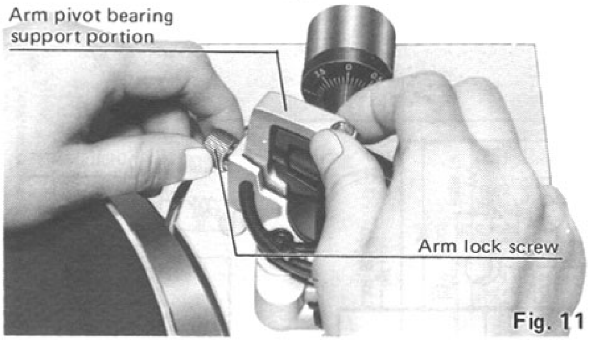


Fig. 11

- If the cartridge height is 18 mm as shown in figure 11, align the fourth line ("18") on the gimbal support portion with the arm base edge as shown in the picture. (See Fig. 12)

  The arm height can be ajusted in 1 mm steps over a range of 6 mm.

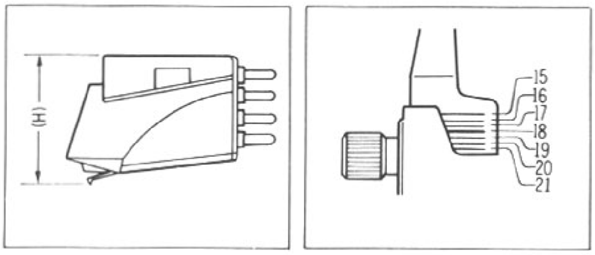


Fig. 12

**Pitch control (turntable speed fine adjustment)**

The Quartz Synthesizer system is being employed for the first time in the world. A high degree of pitch control accuracy over a wide range (±9.9%) in 0.1% increments can be obtained, with the quartz perfectly locked. The pitch variations which are clearly indicated by the LED digital indicator provide you with accurate and easy selection.

- The pitch control can be selected in increments of 0.1% which is below the threshold of human perception. This function can be very effective for minor extention of reduction of broadcasting time in professional applications.

- The pitch control also enables you to accurately and precisely tune musical instruments, and by varying the pitch slightly to obtain a musical note from phono discs.

  For a half-tone change:

  +5.9% (#)
  –5.6% (b)

- Another feature of the variable pitch control over a wide range of ±9.9% is that it makes singing along with a melody easy for a choros or playing a phono disc for accompaniment only.

  By pressing the clear button which is located between the "+" and "–" pitch buttons, you can quickly return the set to normal playing speed.

**Adjustment of the muting time and arm height.**
(See Fig. 13 and 14)

This unit employs "muting switch" combination with arm lift to cut off the irritating noise when the stylus is set down on or lifted up from the record. You can adjust the muting time by adjusting the arm lift height (distance between the stylus tip and record surface when cueing lever is raised).

If the clearance becomes too narrow or too wide because of the physical size of the different cartridge on the market, turn the adjustment screw screw clockwise or counterclockwise, while pushing the arm lift down.

**If the noise is heard**

Adjust the arm lift height adjustment screw clockwise to reduce the distance between the record and stylus tip.

**If the sound is not heard even after the stylus tip sets down on the recorded groove**

Adjust the screw counterclockwise to increase the distance.

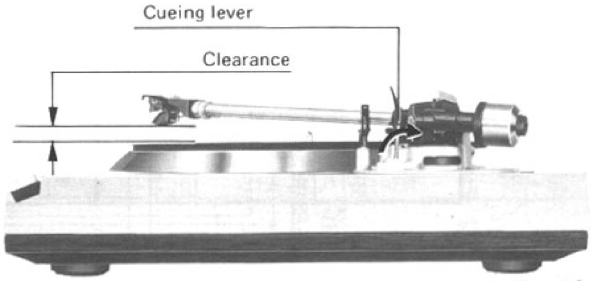


Fig. 13

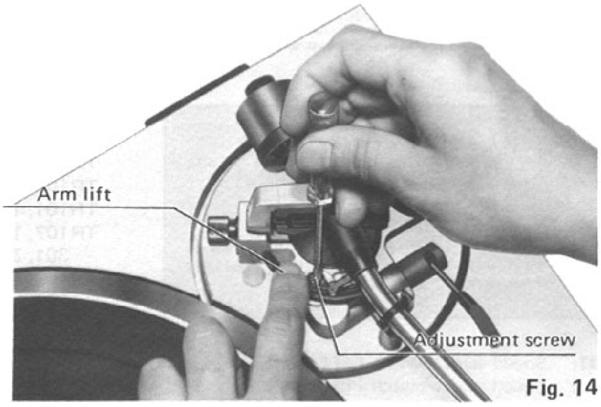


Fig. 14

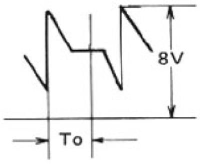
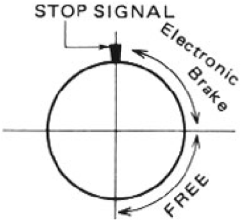
**Note:**

As the adjusting screw has a hexagon head, be sure to make the adjustment while depressing the arm lift, and be sure that the hexagon head retract correctlys into the arm lift when released.

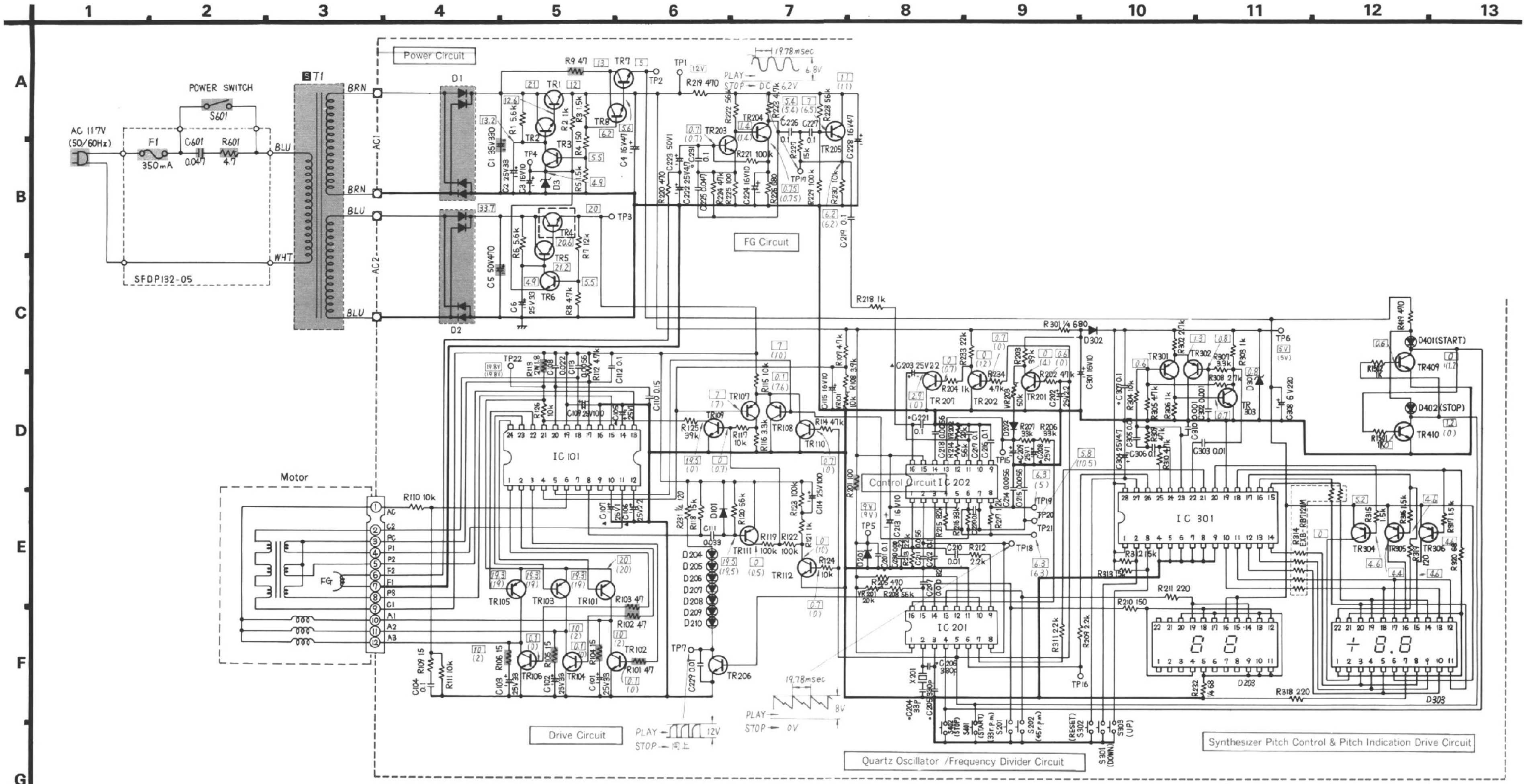
# ■ ADJUSTMENTS-2

### Adjustment Points of Electrical System

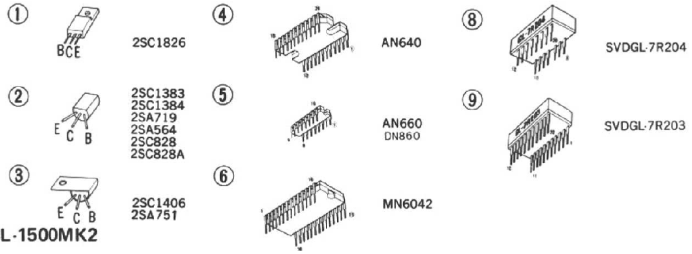
**NOTE:** Make the following adjustments after replacing parts such as IC's, transistors, diodes, etc.

| | Adjustment | Connection Points | Adjustment Point | Adjustment Method |
|---|---|---|---|---|
| A | Adjustment of standard voltage (VS) | DC voltmeter or Oscilloscope<br>⊕→ TP15<br>⊖→ GROUND | **VR201** | Turn start switch on to begin turntable rotation.<br>For 33 rpm . . . adjust VR201 for DC 2.10V ±0.05V.<br>For 45 rpm . . . confirm that there is DC 2.80 ~ 2.86V. |
| B | Adjustment of current source (IR) | DC voltmeter or Oscilloscope<br>⊕→ TP19<br>⊖→ TP21 | **VR202** | Turn start switch on to begin turntable rotation.<br>Adjust VR202 for 0V potential difference of TP19 and TP21. |
| C | Tracking adjustment | Oscilloscope<br>⊕→TP18<br>⊖→GROUND | **VR101** | **TP18 waveform**<br><br> <br>For 33 rpm . . . adjust VR101 for $8 \leq T_0 \leq 8.5$ ms.<br>For 45 rpm . . . confirm that $5.8 \leq T_0 \leq 6.4$ ms. |
| D | Braking adjustment | ——— | **VR203** | <br> <br>Adjust VR203 for complete stop within 90° ~ 180° after stop signal initiated.<br>(Turntable becomes free a few seconds after stop.) |

# Schematic Diagram ...... Model SL-1500MK2 (This schematic diagram may be modified at any time with the development of new technology.)


1
2
3
4
5
6
7
8
9
10
11
12
13
A
B
C
D
E
F
G
AC 117V (50/60Hz)
F1 350mA
C601 0.047
R601 4.7
POWER SWITCH
S601
SFDP132-05
T1
BRN
BLU
WHT
AC1
AC2
D1
D2
Power Circuit
FG Circuit
Motor
FG
IC 101
Drive Circuit
Control Circuit IC 202
IC 201
IC 301
Quartz Oscillator /Frequency Divider Circuit
Synthesizer Pitch Control & Pitch Indication Drive Circuit
D401(START)
D402(STOP)
TR409
TR410
D203
D303
X201
S401 (START)
S402 (STOP)
S201 (33 r.p.m.)
S202 (45 r.p.m.)
S302 (RESET)
S301 (DOWN)
S303 (UP)
PLAY
STOP
19.78msec

## ■ TERMINAL GUIDE


①
2SC1826
BCE
②
2SC1383
2SC1384
2SA719
2SA564
2SC828
2SC828A
E C B
③
2SC1406
2SA751
E C B
④
AN640
⑤
AN660
DN860
⑥
MN6042
⑧
SVDGL-7R204
⑨
SVDGL-7R203

**IMPORTANT SAFETY NOTICE**

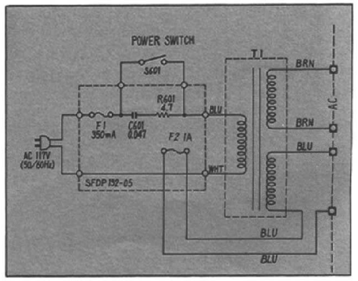
THE SHADED AREA ON THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR SAFETY.
WHEN SERVICING IT IS ESSENTIAL THAT ONLY MANUFACTUR'S SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE SHADED AREAS OF THE SCHEMATIC.

**Notes:**

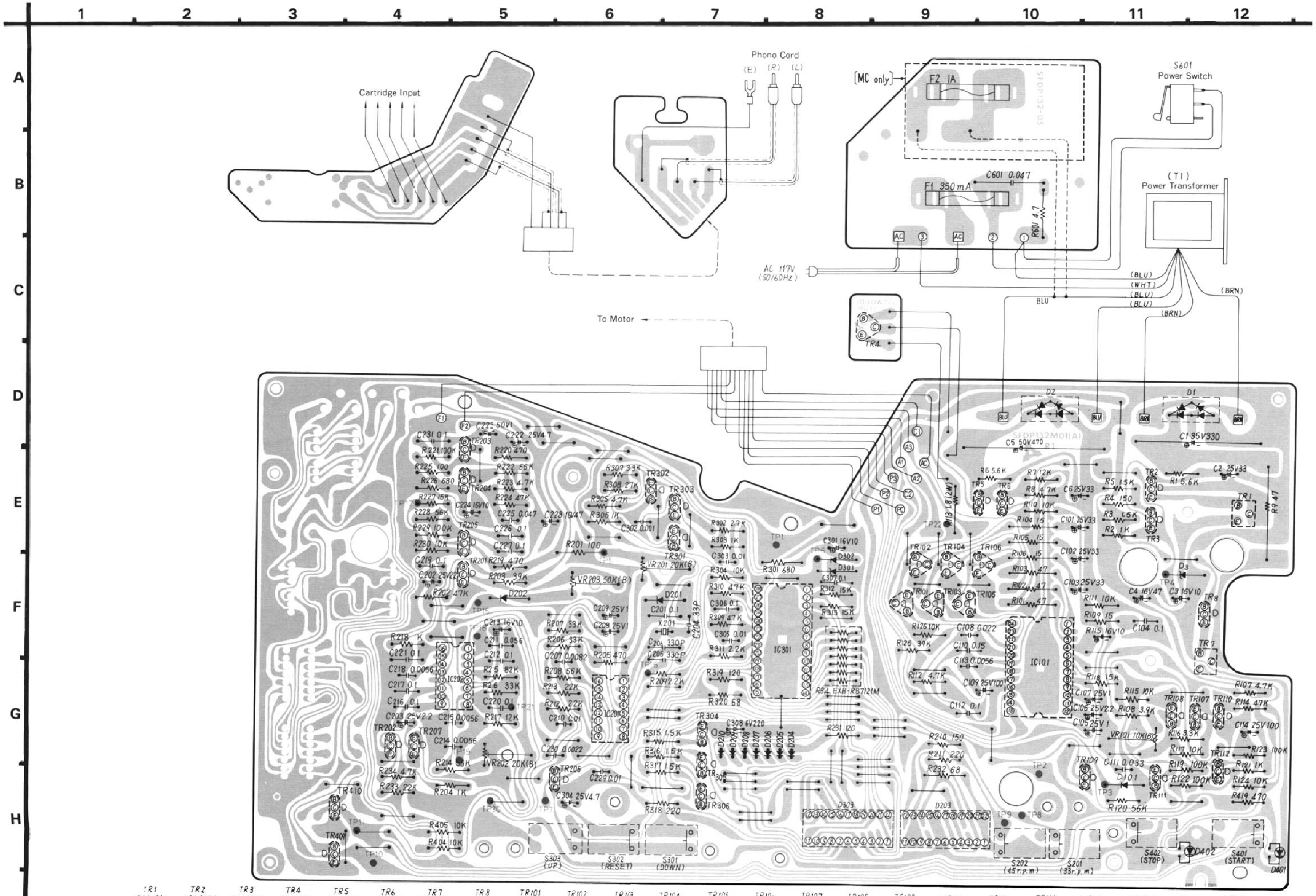
1. **S201:** Speed select switch (33 r.p.m.)
2. **S202:** Speed select switch (45 r.p.m.)
3. **S301:** Pitch Control switch (Down)
4. **S302:** Pitch Control switch (Reset)
5. **S303:** Pitch Control switch (Up)
6. **S401:** Start switch in "**off**" position.
7. **S402:** Stop switch in "**off**" position.
8. **S601:** Power switch in "**off**" position.
9. The voltage values entered are the values measured from the chassis with a standard tester that has an internal resistance of 100KΩ/V.

| | |
|---|---|
| TR1, 4, 7 | 2SC1826 |
| TR2, 3, 6, 8 | 2SC1328-T |
| TR5 | 2SC1384 |
| TR102, 104, 106 | 2SC1406 |
| TR101, 103, 105 | 2SA752 |
| TR107, 107, 111 301, 302, | 2SA666AI -R |
| TR109, 110, 112, 201 ～ 207, 303 409, 410 | 2SC1328-T |
| TR304 ～ 306 | 2SA719 |
| IC101 | AN640 |
| IC201 | DN860 |
| IC202 | AN660 |
| IC301 | MN6042 |
| D1, 2 | SVDRIRBA20 |
| D3, 301 | SVDRD5.1EBS |
| D101, 202, 302 | MA150 |
| D201 | SVDR9.1EBS |
| D203 | SVDGL-7R204 |
| D204 ～ 210 | SVDSR105C |
| D303 | SVDGL-7R203 |
| D401, 402 | SVDSR105C |

•Product for Canada (MC)

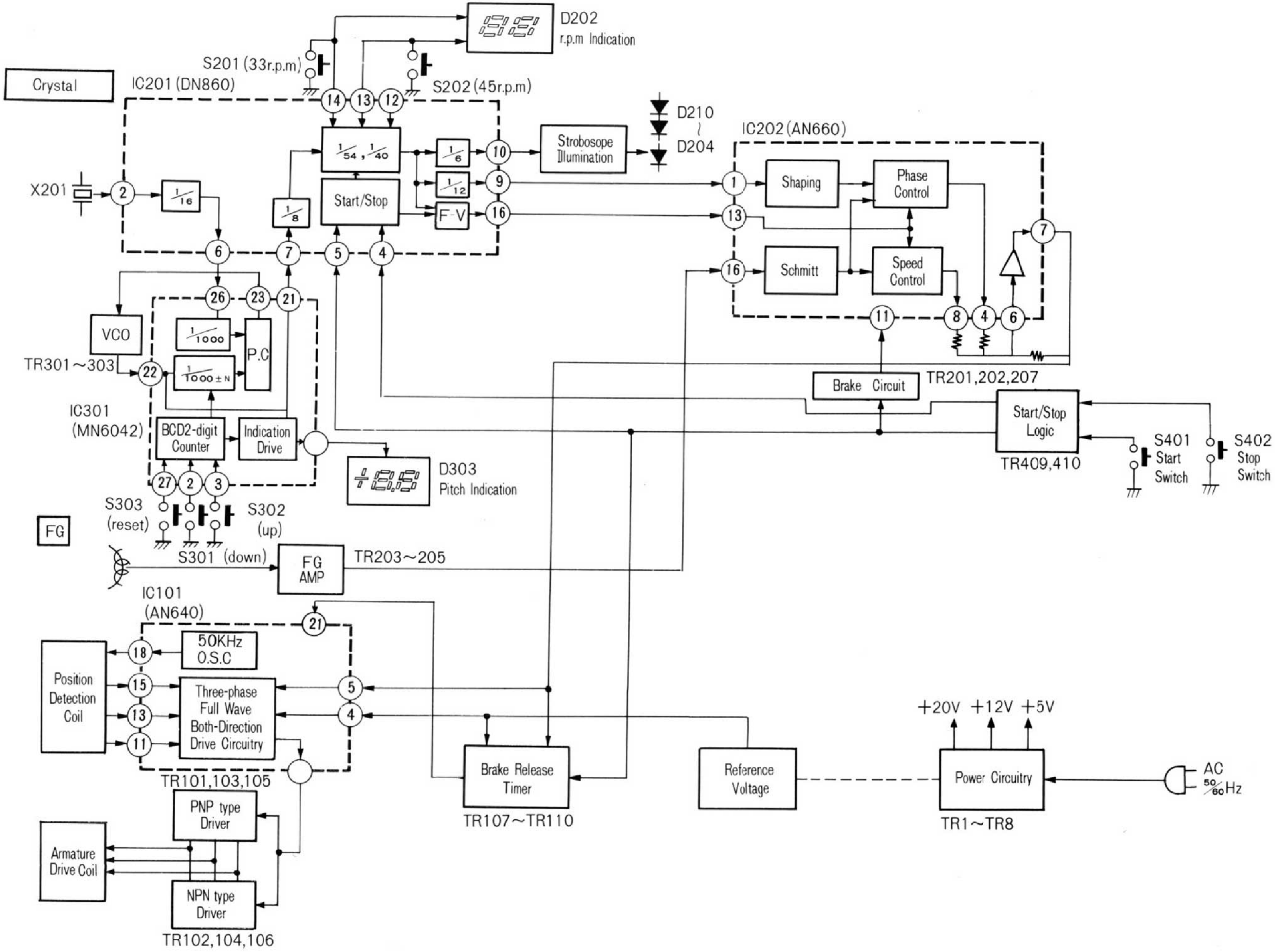

POWER SWITCH
S601
AC 117V (50/60Hz)
F1 350mA
C601 0.047
R601 4.7
F2 1A
SFDP132-05
T1
BRN
BLU
WHT
AC

# Printed Circuit Board ...... SL-1500MK2

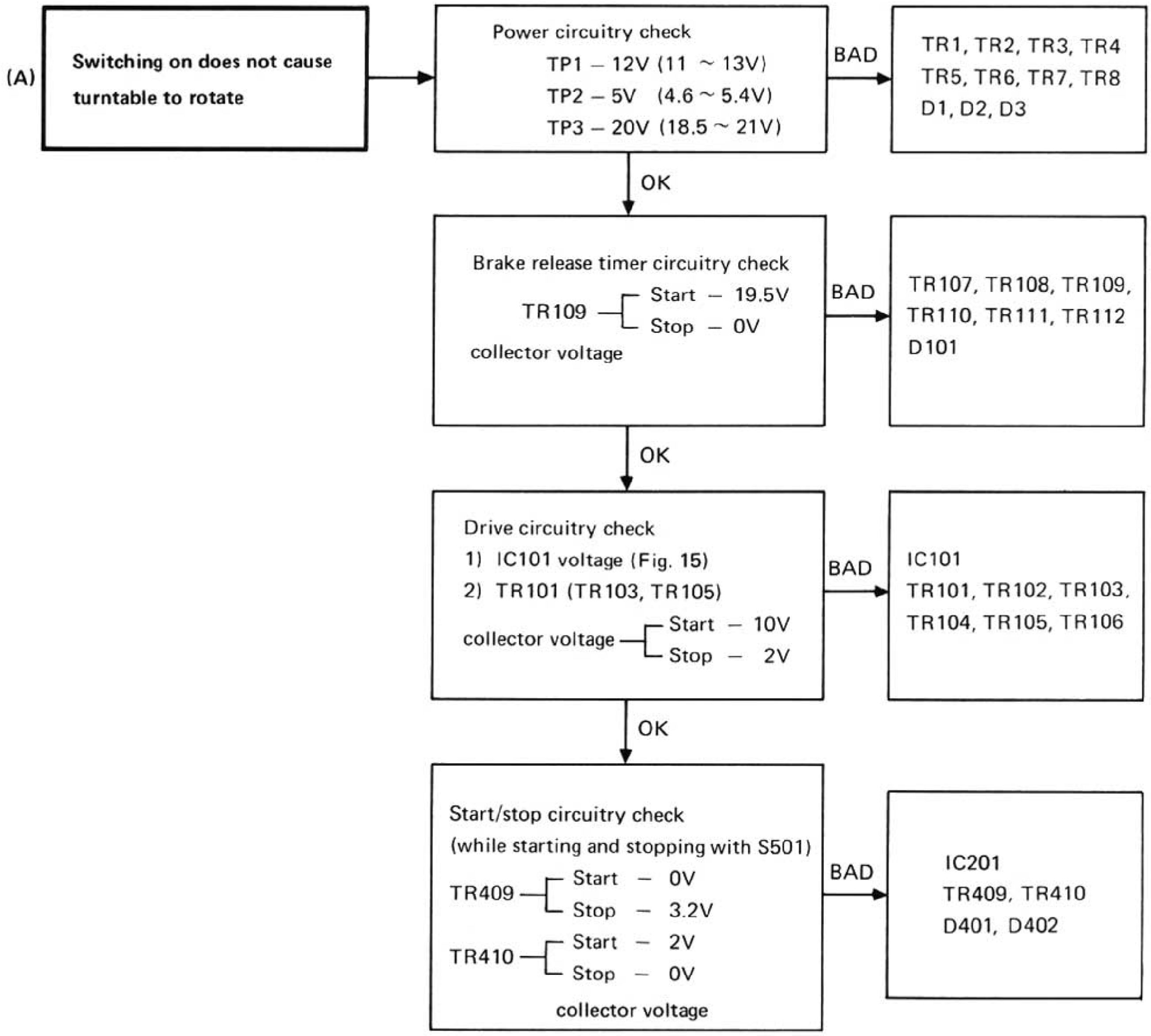

1
2
3
4
5
6
7
8
9
10
11
12
A
B
C
D
E
F
G
H
I
Cartridge Input
Phono Cord
(E) (R) (L)
[MC only]
F2 1A
F1 350 mA
C601 0.047
R601 4.7
SFDP132-05
AC 117V (50/60Hz)
S601 Power Switch
(T1) Power Transformer
(BLU)
(WHT)
(BLU)
(BLU)
(BRN)
(BRN)
BLU
To Motor
TR4
D1
D2
C1 35V330
C5 50V470
C2 25V33
IC101
IC301
IC201
IC202
D203
D303
R84 EXB-R87121M
S303 (UP)
S302 (RESET)
S301 (DOWN)
S202 (45r.p.m)
S201 (33r.p.m)
S402 (STOP)
S401 (START)
D401
D402
VR101 10K(B)
VR201 20K(B)
VR202 20K(B)
VR203 50K(B)
TR409
TR410

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| TR1 | 2SC1826 | E | 12 V | C | 21 V | B | 12.6 V |
| TR2 | 2SC828A | E | 12.6 V | C | 21 V | B | 13.2 V |
| TR3 | 2SC828A | E | 4.9 V | C | 13.2 V | B | 5.5 V |
| TR4 | 2SC1826 | E | 20 V | C | 33.7 V | B | 20.6 V |
| TR5 | 2SC1383 | E | 20.6 V | C | 33.7 V | B | 21.2 V |
| TR6 | 2SC828A | E | 4.9 V | C | 21.2 V | B | 5.5 V |
| TR7 | 2SC1826 | E | 5 V | C | 13 V | B | 5.6 V |
| TR8 | 2SC828A | E | 5.6 V | C | 13 V | B | 6.2 V |
| TR101 | 2SA751 | E | 20 V | C | 10 V | B | 19.3 V |
| TR102 | 2SC1406 | E | 0 V | C | 10 V | B | 0.1 V |
| TR103 | 2SA751 | E | 20 V | C | 10 V | B | 19.3 V |
| TR104 | 2SC1406 | E | [illegible] | C | [illegible] | B | 0.1 V |
| TR105 | 2SA751 | E | 20 V | C | 10 V | B | 19.3 V |
| TR106 | 2SC1406 | E | 0 V | C | 10 V | B | 0.1 V |
| TR107 | 2SA564 | E | 0.1 V | C | 0 V | B | 7 V |
| TR108 | 2SA564 | E | 0.1 V | C | 0 V | B | 7 V |
| TR109 | 2SC828 | E | 0 V | C | 19.5 V | B | 0 V |
| TR110 | 2SC828 | E | 0 V | C | 0.1 V | B | 0.7 V |
| TR111 | 2SA564 | E | 20 V | C | 0 V | B | 19.5 V |
| TR112 | 2SC828 | E | 0 V | C | 0 V | B | 0.7 V |
| TR201 | 2SC828 | E | 0 V | C | 0 V | B | 0.6 V |
| TR202 | 2SC828 | E | 0 V | C | 0 V | B | 0.7 V |
| TR203 | 2SC828 | E | 0 V | C | 1.4 V | B | 0.7 V |
| TR204 | 2SC828 | E | 0.75 V | C | 5.4 V | B | 1.4 V |
| TR205 | 2SC828 | E | 6.2 V | C | 11 V | B | 7 V |
| TR206 | 2SC828 | E | — | C | — | B | — |
| TR207 | 2SC828 | E | 0 V | C | 2.9 V | B | 0 V |
| TR301 | 2SA564 | E | 1.3 V | C | 0.7 V | B | 0.6 V |
| TR302 | 2SA564 | E | 1.3 V | C | 0 V | B | 0.8 V |
| TR303 | 2SC828 | E | 0 V | C | 0.8 V | B | 0.7 V |
| TR304 | 2SA719 | E | 5.2 V | C | 0 V | B | 4.6 V |
| TR305 | 2SA719 | E | 5.2 V | C | 4.4 V | B | 4.6 V |
| TR306 | 2SA719 | E | 5.2V | C | 4.6V | B | 4.6V |
| TR409 | 2SC828 | E | [illegible] | C | [illegible] | B | [illegible] |
| TR410 | 2SC828 | E | 0 V | C | 1.2 V | B | 0 V |

## ■ BLOCK DIAGRAM


Crystal
X201
IC201 (DN860)
S201 (33r.p.m)
S202 (45r.p.m)
D202
r.p.m Indication
1/16
1/8
1/54 , 1/40
Start/Stop
1/6
1/12
F-V
2
6
7
5
4
10
9
16
14
13
12
Strobosope Illumination
D210 ~ D204
IC202 (AN660)
Shaping
Phase Control
Schmitt
Speed Control
1
13
16
11
8
4
6
7
Brake Circuit
TR201,202,207
Start/Stop Logic
TR409,410
S401 Start Switch
S402 Stop Switch
VCO
TR301~303
IC301 (MN6042)
26
23
21
22
1/1000
1/1000±N
P.C
BCD2-digit Counter
Indication Drive
27
2
3
D303
Pitch Indication
S303 (reset)
S302 (up)
S301 (down)
FG
FG AMP
TR203~205
IC101 (AN640)
21
50KHz O.S.C
Three-phase Full Wave Both-Direction Drive Circuitry
18
15
13
11
5
4
Position Detection Coil
TR101,103,105
PNP type Driver
NPN type Driver
TR102,104,106
Armature Drive Coil
Brake Release Timer
TR107~TR110
Reference Voltage
+20V +12V +5V
Power Circuitry
TR1~TR8
AC 50/60 Hz

# ■ TROUBLE SHOOTING



(A) **Switching on does not cause turntable to rotate**

Power circuitry check
TP1 – 12V (11 ~ 13V)
TP2 – 5V (4.6 ~ 5.4V)
TP3 – 20V (18.5 ~ 21V)

BAD → TR1, TR2, TR3, TR4
TR5, TR6, TR7, TR8
D1, D2, D3

OK ↓

Brake release timer circuitry check
TR109 collector voltage – Start – 19.5V
TR109 collector voltage – Stop – 0V

BAD → TR107, TR108, TR109,
TR110, TR111, TR112
D101

OK ↓

Drive circuitry check
1) IC101 voltage (Fig. 15)
2) TR101 (TR103, TR105)
collector voltage – Start – 10V
collector voltage – Stop – 2V

BAD → IC101
TR101, TR102, TR103,
TR104, TR105, TR106

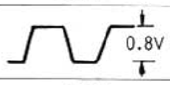
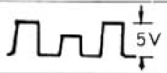
OK ↓

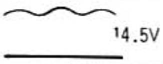
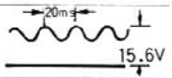
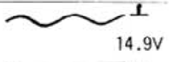
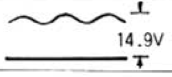
Start/stop circuitry check
(while starting and stopping with S501)
TR409 – Start – 0V
TR409 – Stop – 3.2V
TR410 – Start – 2V
TR410 – Stop – 0V
collector voltage

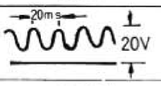
BAD → IC201
TR409, TR410
D401, D402

Reference voltage of each pin of IC101

**(Fig. 15)**

| | Start | Stop |
|---|---|---|
| ①<br>②<br>③ |  | 0.1 V |
| ④ | 5.8 V | 6.1 V |
| ⑤ | 5.9 V | 10.5 V |
| ⑥ | 4.7 V | 2.2 V |
| ⑦ | 4.9 V | 4.9 V |
| ⑧ | 20.5 V | 20.5 V |
| ⑨ |  | 0.2 V |

| | Start | Stop |
|---|---|---|
| ⑩ |  | 15.2 V |
| ⑪<br>⑬<br>⑮ |  | Same as at left |
| ⑫ |  | 15 V |
| ⑭ |  | 15 V |
| ⑯ | 0 V | 0 V |

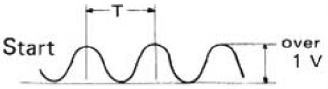
| | Start | Stop |
|---|---|---|
| ⑰ | 15.5 V | 15.5 V |
| ⑱ |  | Same as at left |
| ⑲ | 20.6 V | 20.6 V |
| ⑳ | 15.3 V | 1.4 V |
| ㉑ | 20.5 V | 16.4 V |
| ㉒<br>㉓<br>㉔ | 20 V | 20 V |
| | | |

**(B)** **Runaway operation** → FG circuitry check

FG circuitry check

T — 33 rpm – 20 ms
T — 45 rpm – 15 ms

TP17 — Start



TP17 — Stop DC 6.2V

BAD → TR203, TR204, TR205

OK ↓

Control circuitry check

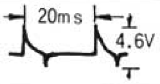
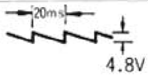
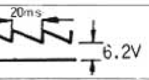
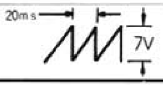
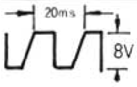
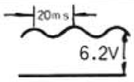
1) IC202 voltage (Fig. 16)
2) TR201, TR202, TR207 collector voltage

TR201 — Start – 0V
TR201 — Stop – 4V
TR202 — Start – 0V
TR202 — Stop – 1V
TR207 — Start – 2.5V
TR207 — Stop – 0V

BAD → IC202
TR201, TR202, TR207
D202

Reference voltage of each pin of IC202

(Fig. 16)

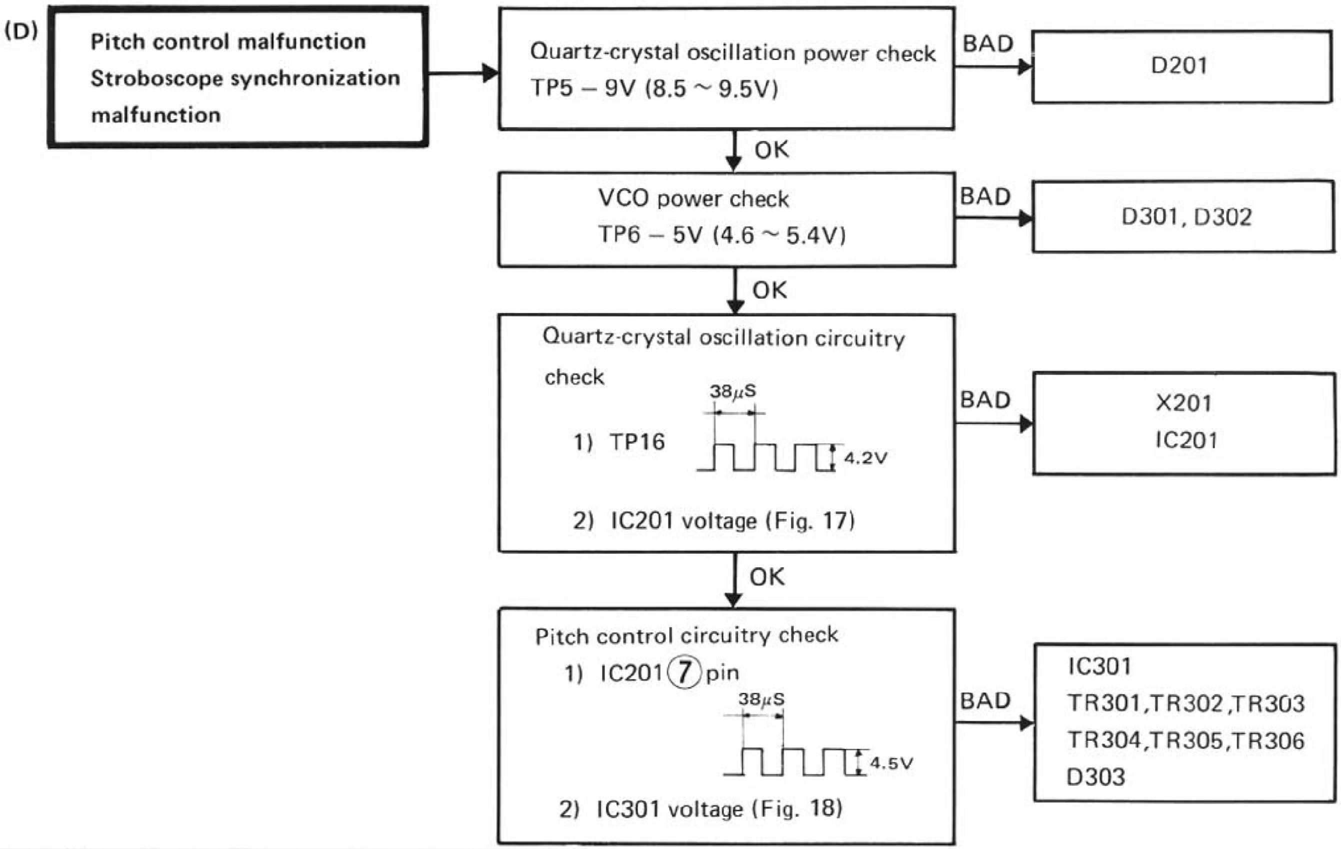
| | Start | Stop |
|---|---|---|
| ① |  | 0 V |
| ② | Same at TP18 | 0 V |
| ③ |  | 6.1 V |
| ④ | 6.6 V | 6.2 V |
| ⑤ | 11.7 V | 11.7 V |
| ⑥ | 6.3 V | 6.3 V |
| ⑦ | 5.8 V | 10.5 V |
| ⑧ | 6.3 V | 5.0 V |
| ⑨ |  | 7.1 V |
| ⑩ | 0 V | 0 V |
| ⑪ |  | 7.5 V |
| ⑫ | 2.1 V | 2.7 V |
| ⑬ | 2.1 V | 2.7 V |
| ⑭ |  | 7.5 V |
| ⑮ | 11.7 V | 11.7 V |
| ⑯ |  | 5.5 V |

**(C)** **33-45 rpm Changeover malfunction** → Speed-set circuitry check IC201 ⑬ ⑭ pin voltage

Speed-set circuitry check IC201 ⑬ ⑭ pin voltage

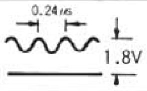
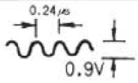
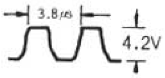
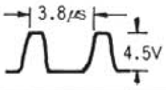
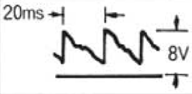
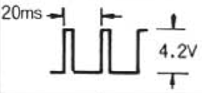
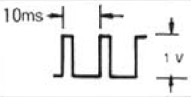
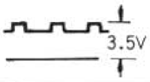
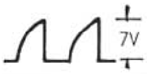
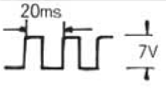
⑬ — 33 rpm – 3.5V
⑬ — 45 rpm – 0.2V
⑭ — 33 rpm – 0.2V
⑭ — 45 rpm – 3.5V

BAD → IC201 D203
S201
S202


(D)
Pitch control malfunction
Stroboscope synchronization malfunction
Quartz-crystal oscillation power check
TP5 – 9V (8.5 ~ 9.5V)
BAD
D201
OK
VCO power check
TP6 – 5V (4.6 ~ 5.4V)
BAD
D301, D302
OK
Quartz-crystal oscillation circuitry check
1) TP16
38μS
4.2V
2) IC201 voltage (Fig. 17)
BAD
X201
IC201
OK
Pitch control circuitry check
1) IC201 ⑦ pin
38μS
4.5V
2) IC301 voltage (Fig. 18)
BAD
IC301
TR301,TR302,TR303
TR304,TR305,TR306
D303

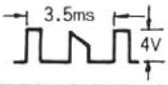
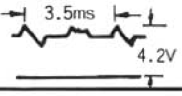
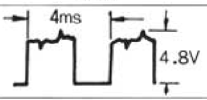
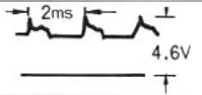
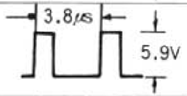
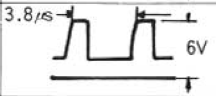
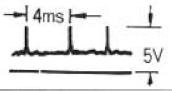
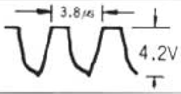
Reference voltage of each pin of IC201

**(Fig. 17)**

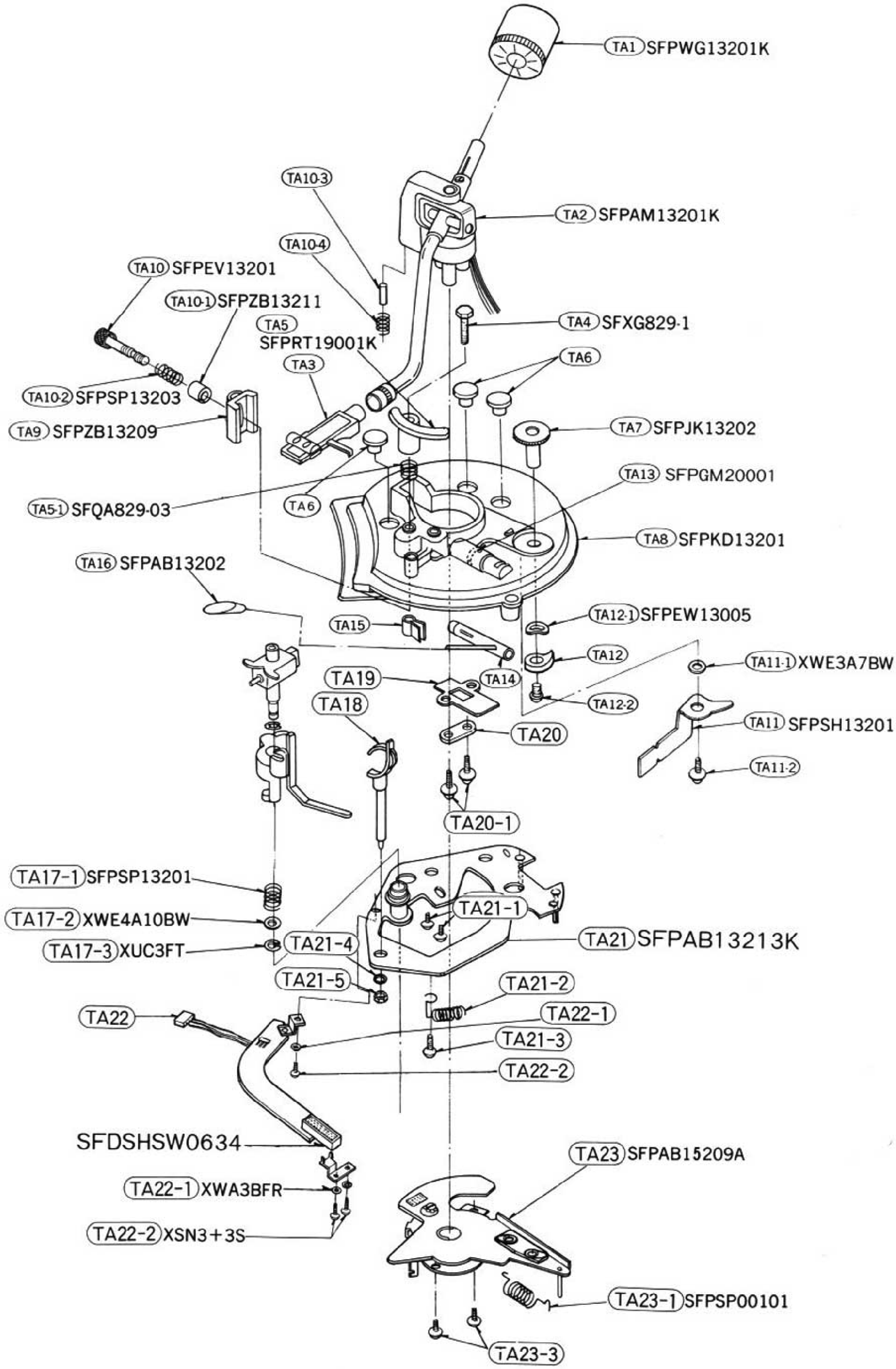
|  | Start | Stop |
|---|---|---|
| ① | 9.4V | 9.4V |
| ② |  | Same as at left |
| ③ |  | Same as at left |
| ④ | 0 V | 3.2V |
| ⑤ | 2.0V | 0 V |
| ⑥ |  | Same as at left |
| ⑦ |  | Same as at left |
| ⑧ |  | 0 V |
| ⑨ |  | 4.3V |
| ⑩ |  | Same as at left |
| ⑪ | 0 V | 0 V |
| ⑫ | 6 V | 6 V |
| ⑬ |  | Same as at left |
| ⑭ | 0.2V | 0.2V |
| ⑮ |  | Same as at left |
| ⑯ |  | 0 V |

Reference voltage of each pin of IC301

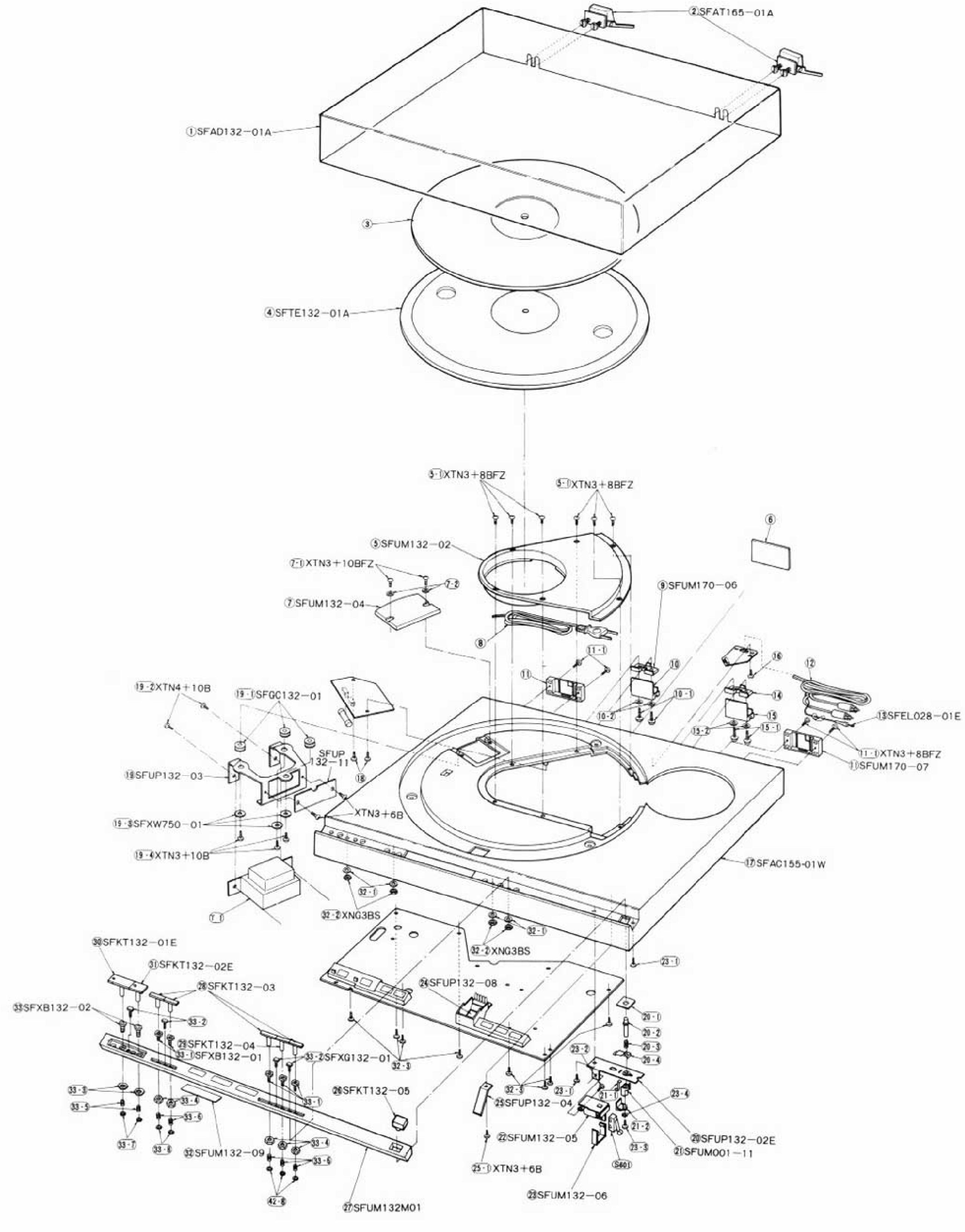
**(Fig. 18)**

|  | Start | Stop |
|---|---|---|
| ①<br>②<br>③ | 4.9V | 4.9V |
| ④⑧<br>⑤⑨<br>⑥⑩<br>⑦ | 0 V | 0 V |
| ⑩⑬<br>⑪⑭<br>⑫⑮ |  | Same as at left |
| ⑯ |  | Same as at left |
| ⑰<br>⑱ |  | Same as at left |
| ⑳ |  | Same as at left |
| ㉑ |  | Same as at left |
| ㉒ |  | Same as at left |
| ㉓ | 2.4V | Same as at left |
| ㉔ | 2.4V | Same as at left |
| ㉕ |  | Same as at left |
| ㉖ |  | Same as at left |
| ㉗ | 5 V | 5 V |
| ㉘ | 5 V | 5 V |

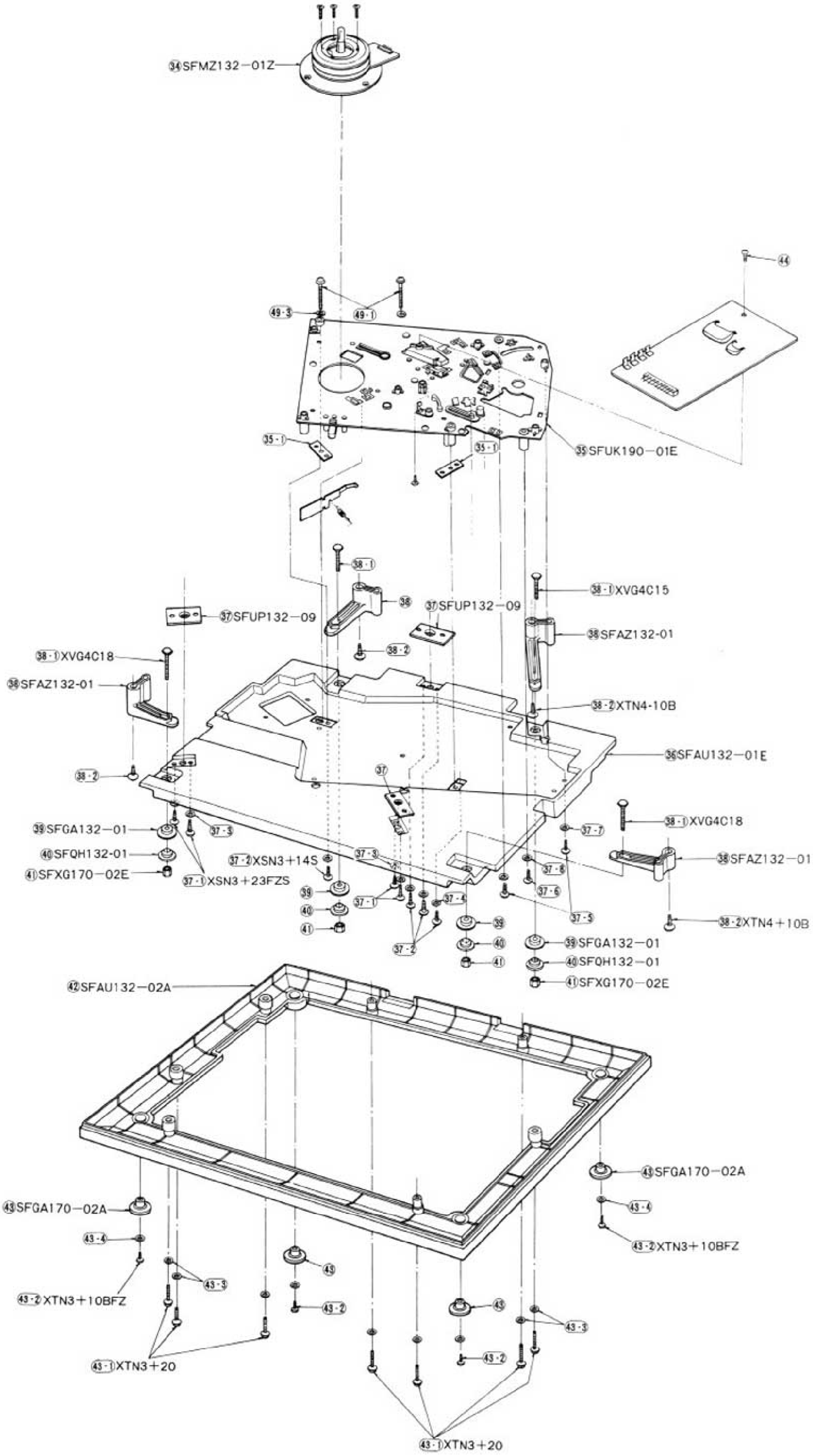
# ■ EXPLODED VIEW


TA1 SFPWG13201K
TA10-3
TA2 SFPAM13201K
TA10-4
TA10 SFPEV13201
TA10-1 SFPZB13211
TA5 SFPRT19001K
TA4 SFXG829-1
TA3
TA6
TA10-2 SFPSP13203
TA9 SFPZB13209
TA7 SFPJK13202
TA13 SFPGM20001
TA5-1 SFQA829-03
TA6
TA8 SFPKD13201
TA16 SFPAB13202
TA12-1 SFPEW13005
TA15
TA12
TA11-1 XWE3A7BW
TA19
TA14
TA12-2
TA18
TA11 SFPSH13201
TA20
TA11-2
TA20-1
TA17-1 SFPSP13201
TA21-1
TA17-2 XWE4A10BW
TA21 SFPAB13213K
TA17-3 XUC3FT
TA21-4
TA21-5
TA21-2
TA22
TA22-1
TA21-3
TA22-2
SFDSHSW0634
TA23 SFPAB15209A
TA22-1 XWA3BFR
TA22-2 XSN3+3S
TA23-1 SFPSP00101
TA23-3

# ■ EXPLODED VIEW


②SFAT165−01A
①SFAD132−01A
③
④SFTE132−01A
5-1XTN3+8BFZ
5-1XTN3+8BFZ
⑥
⑤SFUM132−02
7-1XTN3+10BFZ
7-2
⑦SFUM132−04
⑨SFUM170−06
⑧
11-1
⑪
⑩
10-1
10-2
⑯
⑫
⑭
⑮
15-2
15-1
⑬SFEL028−01E
11-1XTN3+8BFZ
⑪SFUM170−07
19-2XTN4+10B
19-1SFGC132−01
SFUP 132−11
⑱
⑲SFUP132−03
XTN3+6B
19-3SFXW750−01
19-4XTN3+10B
⑰SFAC155-01W
32-1
T1
32-2XNG3BS
32-1
32-2XNG3BS
23-1
㉚SFKT132−01E
㉛SFKT132−02E
㉘SFKT132−03
㉔SFUP132−08
㉝SFXB132−02
33-2
20-1
20-2
20-3
20-4
㉙SFKT132−04
33-1SFXB132−01
33-2SFXG132−01
32-3
23-2
32-3
23-1
21-1
23-4
33-3
33-4
33-1
㉖SFKT132−05
33-5
33-6
㉕SFUP132−04
21-2
㉒SFUM132−05
23-3
⑳SFUP132−02E
33-7
33-8
㉜SFUM132−09
33-4
S601
㉑SFUM001−11
33-6
25-1XTN3+6B
42-8
㉓SFUM132−06
㉗SFUM132M01

# EXPLODED VIEW



㉞SFMZ132－01Z
44
49-3
49-1
㉟SFUK190－01E
35-1
35-1
38-1
38
㊲SFUP132－09
㊲SFUP132－09
38-1XVG4C15
㊳SFAZ132-01
38-1XVG4C18
㊳SFAZ132-01
38-2
38-2XTN4-10B
㊱SFAU132－01E
38-2
37
㊴SFGA132－01
37-3
㊵SFQH132-01
㊶SFXG170－02E
37-1XSN3＋23FZS
37-2XSN3＋14S
37-3
38-1XVG4C18
37-7
37-8
37-6
37-5
㊳SFAZ132－01
38-2XTN4＋10B
㊴
㊵
㊶
37-1
37-4
37-2
㊴
㊵
㊶
㊴SFGA132－01
㊵SFQH132－01
㊶SFXG170－02E
㊷SFAU132－02A
㊸SFGA170－02A
㊸SFGA170－02A
43-4
43-4
43-2XTN3＋10BFZ
43-2XTN3＋10BFZ
43-3
㊸
43-2
㊸
43-3
43-2
43-1XTN3＋20
43-1XTN3＋20

# ■ REPLACEMENT PARTS LIST

**Important Safety Notice**

**Components identified by shaded area have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.**

Note: 1. Part numbers are indicated on most mechanical parts.
Please use this part number for parts orders.
2. SL-1500MK2(M) ——→ (M)
SL-1500MK2(MC) ——→ (MC)

| Ref. No. | Part No. | Part Name & Description | Per Set | Remarks |
|---|---|---|---|---|
| | | **INTEGRATED CIRCUITS** | | |
| IC101 | AN640 | Drive Circuit | 1 | |
| IC201 | DN860 | Frequency Divider Circuit | 1 | |
| IC202 | AN660 | Control Circuit | 1 | |
| IC301 | MN6042 | Pitch Control Circuit | 1 | |
| | | **TRANSISTORS** | | |
| TR1, 4, 7 | **2SC1826-Y** | Transistors (Use in ranks O or Y or G) | 3 | |
| TR2, 3, 6, 8, | 2SC1328G | Transistors | 4 | |
| TR5 | **2SC1384A-Q** | Transistor (Use in ranks Q or R or S) | 1 | |
| TR101 | **2SA752-Q** | Transistor **(Use in pair ranks Q or R or S)** | 1 | |
| TR102 | **2SC1406-Q** | Transistor | 1 | |
| TR103 | **2SA752-Q** | Transistor **(Use in pair ranks Q or R or S)** | 1 | |
| TR104 | **2SC1406-Q** | Transistor | 1 | |
| TR105 | **2SA752-Q** | Transistor **(Use in pair ranks Q or R or S)** | 1 | |
| TR106 | **2SC1406-Q** | Transistor | 1 | |
| TR107, 108, 111, 301, 302 | **2SA666AI-R** | Transistor (Use in ranks Q or R or S) | 5 | |
| TR109, 110, 112, 201, 202, 203, 204, 205, 206, 207, 303, 409, 410 | **2SC1328-T** | Transistor | 13 | |
| TR304, 305, 306 | **2SA719-P** | Transistors (Use in ranks P or Q or R or S) | 3 | |
| | | **DIODES** | | |
| D1, 2 | SVDSIRBA20 | Rectifier | 2 | |
| D3, 301 | SVDRD5.1EBS | 5.1V Zener, Voltage Stabilizer | 2 | |
| D101, 202, 302, | MA150 | Diodes | 3 | |
| D201 | SVDRD9.1EBS | 9.1V Zener, Voltage Stabilizer | 1 | |
| D203 | SVDGL-7R204 | Light Emitting Diode (r.p.m) | 1 | |
| D204, 205, 206, 207, 208, 209, 210, 401, 402 | SVDSR105C | Light Emitting Diode | 9 | |
| D303 | SVDGL-7R203 | Light Emitting Diode (pitch) | 1 | |
| | | **CRYSTAL** | | |
| X204 | SVQU306115 | 4.19328MHz Oscillater | 1 | |
| | | **TRANSFORMER** | | |
| T1 | SLT60EU3B | Power Transformer | 1 | |
| | | **FUSE** | | |
| F1 | XBA2E04NU100 | 400mA (Fuse) | 1 | |
| F2 (MC only) | XBA2E10NU100 | 1A (Fuse) | 1 | |

| Ref. No. | Part No. | Part Name & Description | Per Set | Remarks |
|---|---|---|---|---|
| | | **SWITCHES** | | |
| S201, 202 | EVQP4R04K | Speed Selector Switches | 2 | |
| S301, 302, 303 | EVQP4R04K | Pitch Control Switches | 3 | |
| S401, 402 | EVQP4R04K | Start or Stop Switches | 2 | |
| S601 | SFDSSS5GL2 | Power Switch | 1 | |
| | SFDSHSW0634 | Switch, Muting | 1 | |
| | | **RESISTORS** | | |
| R1 | **ERD25TJ562** | Carbon, 5.6kΩ, 1/4W, ± 5% | 1 | |
| R2 | **ERD25TJ102** | Carbon, 1kΩ, 1/4W, ± 5% | 1 | |
| R3 | **ERD25TJ152** | Carbon, 1.5kΩ, 1/4W, ± 5% | 1 | |
| R4 | **ERD25TJ151** | Carbon, 150Ω, 1/4W, ± 5% | 1 | |
| R5 | **ERD25TJ152** | Carbon, 1.5kΩ, 1/4W, ± 5% | 1 | |
| R6 | **ERD25TJ562** | Carbon, 5.6kΩ, 1/4W, ± 5% | 1 | |
| R7 | **ERD25TJ123** | Carbon, 12kΩ, 1/4W, ± 5% | 1 | |
| R8 | **ERD25TJ472** | Carbon, 4.7kΩ, 1/4W, ± 5% | 1 | |
| R9 | **ERG3ANJ470** | Metal Film, 47Ω, 3W, ± 5% | 1 | |
| R101, 102, 103 | **ERX1ANJ470** | Metal Film, 47Ω, 1W, ± 5% | 3 | |
| R104, 105, 106 | **ERX1ANJ150** | Metal Film, 15Ω, 1W, ± 5% | 3 | |
| R107 | **ERD25TJ472** | Carbon, 4.7kΩ, 1/4W, ± 5% | 1 | |
| R108 | **ERD25TJ392** | Carbon, 3.9kΩ, 1/4W, ± 5% | 1 | |
| R109 | **ERD25TJ150** | Carbon, 15Ω, 1/4W, ± 5% | 1 | |
| R110, 111 | **ERD25TJ103** | Carbon, 10kΩ, 1/4W, ± 5% | 2 | |
| R112 | **ERD25TJ472** | Carbon, 4.7kΩ, 1/4W, ± 5% | 1 | |
| R113 | **ERX1ANJ1R8** | Metal Film, 1.8Ω, 1W, ± 5% | 1 | |
| R114 | **ERD25TJ473** | Carbon, 47kΩ, 1/4W, ± 5% | 1 | |
| R115 | **ERD25TJ103** | Carbon, 10kΩ, 1/4W, ± 5% | 1 | |
| R116 | **ERD25TJ332** | Carbon, 3.3kΩ, 1/4W, ± 5% | 1 | |
| R117 | **ERD25TJ103** | Carbon, 10kΩ 1/4W, ± 5% | 1 | |
| R118 | **ERD25TJ153** | Carbon, 15kΩ, 1/4W, ± 5% | 1 | |
| R119 | **ERD25TJ104** | Carbon 100kΩ, 1/4W, ± 5% | 1 | |
| R120 | **ERD25TJ563** | Carbon, 56kΩ, 1/4W, ± 5% | 1 | |
| R121 | **ERD25TJ102** | Carbon, 1kΩ, 1/4W, ± 5% | 1 | |
| R122, 123 | **ERD25TJ104** | Carbon, 100kΩ, 1/4W, ± 5% | 2 | |
| R124 | **ERD25TJ103** | Carbon, 10kΩ, 1/4W, ± 5% | 1 | |
| R125 | **ERD25TJ393** | Carbon, 39kΩ, 1/4W, ± 5% | 1 | |
| R126 | **ERD25TJ103** | Carbon, 10kΩ, 1/4W, ± 5% | 1 | |
| R201 | **ERX1ANJ101** | Metal Film, 100Ω, 1W, ± 5% | 1 | |
| R202 | **ERD25TJ473** | Carbon, 47kΩ, 1/4W, ± 5% | 1 | |
| R203 | **ERD25TJ393** | Carbon, 39kΩ, 1/4W, ± 5% | 1 | |
| R204 | **ERD25TJ102** | Carbon, 1kΩ, 1/4W, ± 5% | 1 | |
| R205 | **ERD25TJ471** | Carbon, 470Ω, 1/4W, ± 5% | 1 | |
| R206, 207 | **ERD25TJ333** | Carbon, 33kΩ, 1/4W, ± 5% | 2 | |
| R208 | **ERD25TJ563** | Carbon, 56kΩ, 1/4W, ± 5% | 1 | |
| R209 | **ERD25TJ222** | Carbon, 2.2kΩ, 1/4W, ± 5% | 1 | |
| R210 | **ERD25TJ151** | Carbon, 150Ω, 1/4W, ± 5% | 1 | |
| R211 | **ERD25TJ221** | Carbon, 220Ω, 1/4W, ± 5% | 1 | |
| R212 | **ERD25TJ222** | Carbon, 2.2kΩ, 1/4W, ± 5% | 1 | |
| R213 | **ERD25TJ223** | Carbon, 22kΩ, 1/4W, ± 5% | 1 | |
| R214 | **ERD25TJ563** | Carbon, 56kΩ, 1/4W, ± 5% | 1 | |
| R215 | **ERD25TJ823** | Carbon, 82kΩ, 1/4W, ± 5% | 1 | |
| R216 | **ERD25TJ333** | Carbon, 33kΩ, 1/4W, ± 5% | 1 | |
| R217 | **ERD25TJ123** | Carbon, 12KΩ, 1/4W, ± 5% | 1 | |
| R218 | **ERD25TJ102** | Carbon, 1kΩ, 1/4W, ± 5% | 1 | |

| Ref. No. | Part No. | Part Name & Description | Per Set | Remarks |
|---|---|---|---|---|
| R219, 220 | **ERD25TJ471** | Carbon, 470Ω, 1/4W, ± 5% | 2 | |
| R221 | **ERD25TJ104** | Carbon, 100kΩ, 1/4W, ± 5% | 1 | |
| R222 | **ERD25TJ563** | Carbon, 56kΩ, 1/4W, ± 5% | 1 | |
| R223 | **ERD25TJ472** | Carbon, 4.7kΩ, 1/4W, ± 5% | 1 | |
| R224 | **ERD25TJ473** | Carbon, 47kΩ, 1/4W, ± 5% | 1 | |
| R225 | **ERD25TJ101** | Carbon, 100Ω, 1/4W, ± 5% | 1 | |
| R226 | **ERD25TJ681** | Carbon, 680Ω, 1/4W, ± 5% | 1 | |
| R227 | **ERD25TJ153** | Carbon, 15kΩ, 1/4W, ± 5% | 1 | |
| R228 | **ERD25TJ563** | Carbon, 56kΩ, 1/4W, ± 5% | 1 | |
| R229 | **ERD25TJ104** | Carbon, 100kΩ, 1/4W, ± 5% | 1 | |
| R230 | **ERD25TJ103** | Carbon, 10kΩ, 1/4W, ± 5% | 1 | |
| R231 | **ERD25TJ121** | Carbon, 120Ω, 1/4W, ± 5% | 1 | |
| R232 | **ERD25TJ680** | Carbon, 68Ω, 1/4W, ± 5% | 1 | |
| R233 | **ERD25TJ223** | Carbon, 22kΩ, 1/4W, ± 5% | 1 | |
| R234 | **ERD25TJ472** | Carbon, 4.7kΩ, 1/4W, ± 5% | 1 | |
| R301 | **ERD25TJ391** | Carbon, 390Ω, 1/4W, ± 5% | 1 | |
| R302 | **ERD25TJ272** | Carbon, 2.7kΩ, 1/4W, ± 5% | 1 | |
| R303 | **ERD25TJ102** | Carbon, 1kΩ, 1/4W, ± 5% | 1 | |
| R304 | **ERD25TJ103** | Carbon, 10kΩ, 1/4W, ± 5% | 1 | |
| R305 | **ERD25TJ472** | Carbon, 4.7kΩ, 1/4W, ± 5% | 1 | |
| R306 | **ERD25TJ102** | Carbon, 1kΩ, 1/4W, ± 5% | 1 | |
| R307 | **ERD25TJ332** | Carbon, 3.3kΩ, 1/4W, ± 5% | 1 | |
| R308 | **ERD25TJ273** | Carbon, 27kΩ, 1/4W, ± 5% | 1 | |
| R309, 310 | **ERD25TJ473** | Carbon, 47kΩ, 1/4W, ± 5% | 2 | |
| R311 | **ERD25TJ222** | Carbon, 2.2kΩ, 1/4W, ± 5% | 1 | |
| R312, 313 | **ERD25TJ153** | Carbon, 15kΩ, 1/4W, ± 5% | 2 | |
| R314 | EXBRB7121M | Composite Resistor, 120Ω, x 7, ±20% | 1 | ○ |
| R315, 316, 317 | **ERD25TJ152** | Carbon, 1.5kΩ, 1/4W, ± 5% | 3 | |
| R318 | **ERD25TJ221** | Carbon, 220Ω, 1/4W, ± 5% | 1 | |
| R319 | **ERD25TJ121** | Carbon, 120Ω, 1/4W, ± 5% | 1 | |
| R320 | **ERD25TJ680** | Carbon, 68Ω, 1/4W, ± 5% | 1 | |
| R419 | **ERD25TJ471** | Carbon, 470Ω, 1/4W, ± 5% | 1 | |
| R601 | **ERD50TJ4R7** | Carbon, 4.7Ω, 1/2W, ± 5% | 1 | |
| R1501 | **ERD25TJ102** | Carbon, 1kΩ, 1/4W, ± 5% | 1 | |
| R1502 | **ERD25TJ102** | Carbon, 1kΩ, 1/4W, ± 5% | 1 | |

## VARIABLE RESISTORS

| Ref. No. | Part No. | Part Name & Description | Per Set | Remarks |
|---|---|---|---|---|
| VR101 | **EVLS3AA00B14** | Period Adjustment | 1 | |
| VR201 | **EVLS3AA00B24** | VS Adjustment | 1 | |
| VR202 | **EVLS3AA00B24** | IR Adjustment | 1 | |
| VR203 | **EVLS3AA00B54** | Brake Adjustment | 1 | |

## CAPACITORS

| Ref. No. | Part No. | Part Name & Description | Per Set | Remarks |
|---|---|---|---|---|
| C1 | **ECEB35V330** | Electrolytic, 330μF, 35V | 1 | |
| C2 | **ECEA25V33** | Electrolytic, 33μF, 25V | 1 | |
| C3 | **ECEA16V10** | Electrolytic, 10μF, 16V | 1 | |
| C4 | **ECEA16V47** | Electrolytic, 47μF, 16V | 1 | |
| C5 | **ECEB50V470** | Electrolytic, 470μF 50V | 1 | |
| C6 | **ECEA25V33** | Electrolytic, 33μF, 25V | 1 | |
| C101, 102, 103 | **ECEA25V33** | Electrolytic, 33μF, 25V | 3 | |
| C104 | **ECQM1H104KZ** | Polyester, 0.1μF, 50V, ±10% | 1 | |
| C105 | ECSZ25EF1 | Electrolytic, 1μF, 25V | 1 | |
| C106 | ECSZ25EF2R2 | Electrolytic, 2.2μF, 25V | 1 | |
| C107 | ECSZ25EF1 | Electrolytic, 1μF, 25V | 1 | |
| C108 | **ECQM1H223KZ** | Polyester, 0.022μF, 50V, ±10% | 1 | |
| C109 | ECEA25Z100 | Electrolytic, 100μF, 25V | 1 | |
| C110 | **ECQM05154KZ** | Polyester, 0.15μF, 50V, ±10% | 1 | |
| C111 | **ECQM1H333KZ** | Polyester, 0.033μF, 50V, ±10% | 1 | |
| C112 | **ECQM1H104KZ** | Polyester, 0.1μF, 50V, ±10% | 1 | |
| C113 | **ECQM1H562KZ** | Polyester, 0.0056μF, 50V, ±10% | 1 | |
| C114 | **ECEA25V100** | Electrolytic, 100μF, 25V | 1 | |
| C115 | **ECEA16V10** | Electrolytic, 10μF, 16V | 1 | |
| C201 | ECKD1E104ZFZ | Ceramic, 0.1μF 50V | 1 | |
| C202 | **ECEA25V2R2** | Electrolytic, 2.2μF, 25V | 1 | |
| C203 | ECSZ25EF2R2 | Electrolytic, 2.2μF, 25V | 1 | |
| C204 | ECCD1H330K | Ceramic, 33pF, 50V, ±10% | 1 | |
| C205, 206 | ECCD1H331K | Ceramic, 330pF, 50V, ±10% | 2 | |
| C207 | **ECQM1H822KZ** | Polyester, 0.0082μF, 50V, ±10% | 1 | |
| C208, 209 | ECSZ25EF1 | Electrolytic, 1μF, 25V | 2 | |
| C210 | **ECQM1H103KZ** | Polyester, 0.01μF, 50V, ±10% | 1 | |
| C211 | **ECQM1H563KZ** | Polyester, 0.056μF, 50V, ±10% | 1 | |
| C212 | **ECQM1H104KZ** | Polyester, 0.1μF, 50V, ±10% | 1 | |
| C213 | **ECEA16V10** | Electrolytic, 10μF, 16V | 1 | |
| C214 | **ECQM1H562KZ** | Polyester, 0.0056μF, 50V, ±10% | 1 | |
| C215 | **ECQM1H562KZ** | Polyester, 0.0056μF, 50V, ±10% | 1 | |
| C216, 217 | **ECQM1H104KZ** | Polyester, 0.1μF, 50V, ±10% | 1 | |
| C218 | **ECQM1H562KZ** | Polyester, 0.0056μF, 50V, ±10% | 1 | |
| C219, 220 | **ECQM1H104KZ** | Polyester, 0.1μF, 50V, ±10% | 1 | |
| C221 | ECKD1E104ZFZ | Ceramic, 0.1μF, 50V | 1 | |
| C222 | **ECEA50V4R7** | Electrolytic, 4.7μF, 50V | 1 | |
| C223 | **ECEA50V1** | Electrolytic, 1μF, 50V | 1 | |
| C224 | **ECEA16V10** | Electrolytic, 10μF, 50V | 1 | |
| C225 | **ECQM1H473KZ** | Polyester, 0.047μF, 50V, ±10% | 1 | |
| C226, 227 | **ECQM1H104KZ** | Polyester, 0.1μF, 50V, ±10% | 2 | |
| C228 | **ECEA16V47** | Electrblytic, 47μF, 16V | 1 | |
| C229 | **ECQM1H103KZ** | Polyester, 0.01μF, 50V, ±10% | 1 | |
| C230 | **ECQM1H102KZ** | Polyester, 0.001μF, 50V, ±10% | 1 | |
| C231 | ECKD1E104ZFZ | Ceramic, 0.1μF, 50V, | 1 | |
| C301 | **ECEA16V10** | Electrolytic, 10μF, 16V | 1 | |
| C302 | **ECQM1H102KZ** | Polyester, 0.001μF, 50V, ±10% | 1 | |
| C303 | **ECQM1H103KZ** | Polyester, 0.01μF, 50V, ±10% | 1 | |
| C304 | **ECEA50V4R7** | Electrolytic, 4.7μF, 50V | 1 | |
| C305 | **ECQM1H103KZ** | Polyester, 0.01μF, 50V, ±10% | 1 | |
| C306 | **ECQM1H104KZ** | Polyester, 0.1μF, 50V, ±10% | 1 | |
| C307 | ECKD1E104ZFZ | Ceramic, 0.1μF, 50V | 1 | |
| C308 | **ECEA6V220** | Electrolytic, 220μF, 6V | 1 | |
| C310 | **ECQM1H102KZ** | Polyester, 0.001μF, 50V, ±10% | 1 | |
| C601 [M] | ECQF1A473MD | Polyester, 0.047μF, 125V, ±20% | 1 | |
| C601 [MC] | ECQU1A473MC | Polyester, 0.047μF, 125V, ±20% | 1 | |

## CABINET and CHASSIS PARTS

| Ref. No. | Part No. | Part Name & Description | Per Set | Remarks |
|---|---|---|---|---|
| 1 | SFAD132-01A | Dust Cover | 1 | |
| 2 | SFAT165-01A | Hinge Ass'y | 2 | |
| 3 [M] | SFTG170M01 | Turntable Mat | 1 | |
| 3 [MC] | SFTG170-01 | Turntable Mat | 1 | |
| 4 | SFTE132-01A | Turntable | 1 | |
| 5 | SFUM132-02 | Cover, Panel | 1 | |
| 5-1 | **XTN3+8BFZ** | Screw, Panel Cover | 6 | |
| 6 [M] | SFNN155M01 | Name Plate | 1 | *○ |
| 6 [MC] | SFNN155C01 | Name Plate | 1 | *○ |
| 7 | SFUM132-04 | Cover, Transformer | 1 | |

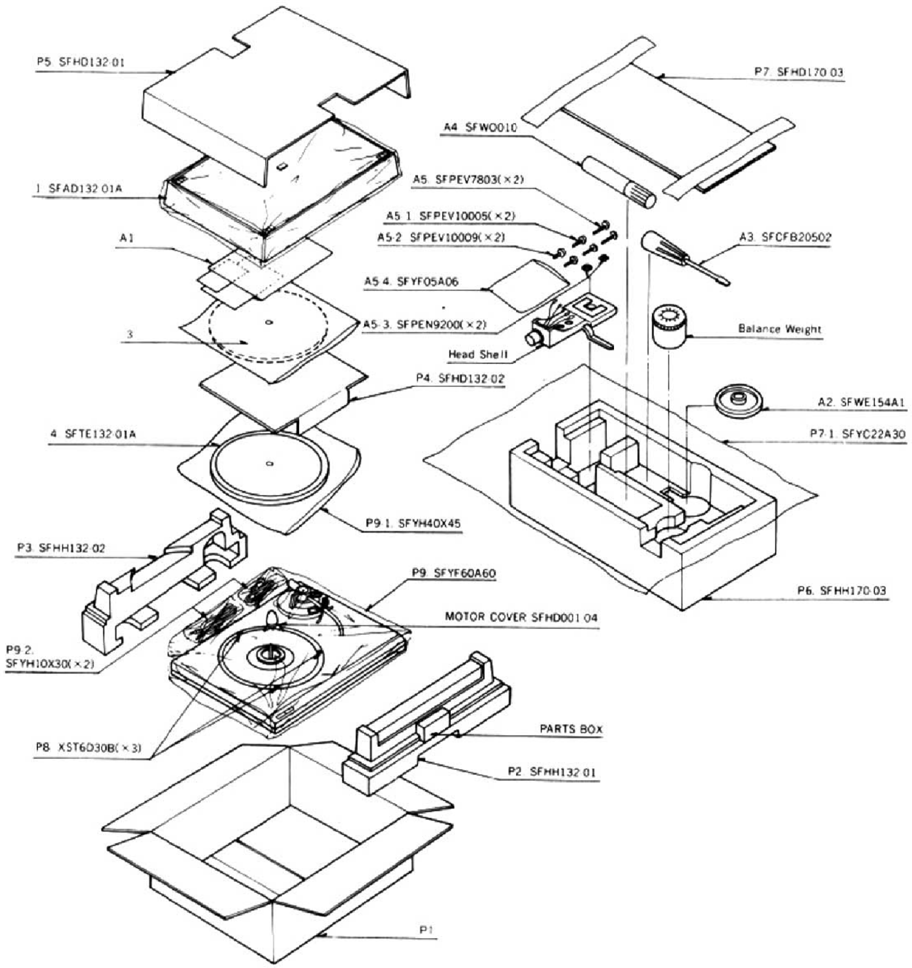
| Ref. No. | Part No. | Part Name & Description | Per Set | Remarks |
|---|---|---|---|---|
| 7-1 | **XTN3+10BFZ** | Screw, Transformer Cover | 2 | |
| 7-2 | **XWG3** | Washer, Transformer Cover | 2 | |
| 8 | **RJA10A** | AC Cord | 1 | |
| 9 | SFUM170-06 | Spacer, AC Power Cord | 1 | |
| 10 | SFUM170-05 | Bracket, AC Power Cord | 1 | |
| 10-1 | **XTN3+14BFZ** | Screw, AC Cord Bracket | 2 | |
| 10-2 | **XWG3** | Washer, AC Cord Bracket | 2 | |
| 11 | SFUM170-07 | Case, Hinge Ass'y | 2 | |
| 11-1 | **XTN3+8BFZ** | Screw, Hinge Ass'y Case | 4 | |
| 12 [M] | SFDH360M01 | Phono Cord | 1 | |
| 12 [MC] | SFDH028-01 | Phono Cord | 1 | |
| 13 | SFEL028-01E | Ground Wire | 1 | |
| 14 | SFUM170-06 | Spacer, Phono Cord | 1 | |
| 15 | SFUM170-11 | Bracket, Phono Cord | 1 | |
| 15-1 | **XTN3+14BFZ** | Screw, Phono Cord Bracket | 2 | |
| 15-2 | **XWG3** | Washer, Phono Cord Bracket | 2 | |
| 16 | **XTN3+8B** | Screw, Phono Cord P.C.B. | 1 | |
| 17 | SFAC155-01W | Cabinet | 1 | ○ |
| 17-1 | SFUZ132-03 | Sheet, Panel Cover | 1 | ○ |
| 18 | **XTN3+8B** | Screw, P.C.B. | 2 | |
| 19 | SFUP132-03 | Bracket, Power Transformer | 1 | |
| 19-1 | SFGC132-01 | Spacer (Rubber), Power Transformer Bracket | 3 | |
| 19-2 | **XTN4+10B** | Screw, Power Transformer | 2 | |
| 19-3 | SFXW750-01 | Washer, Power Transformer Bracket | 3 | |
| 19-4 | **XTN3+10B** | Screw, Power Transformer Bracket | 3 | |
| 19-5 | SFUP132-11 | Plate, Shield | 1 | |
| 20 | SFUP132-02E | Bracket, Power Switch | 1 | |
| 20-1 | SFUZ132-02 | Felt, Power Switch Knob | 1 | |
| 20-2 | SFXJ132-03 | Support, Power Switch Knob | 1 | |
| 20-3 | SFQA001-02 | Spring, Power Switch Knob | 1 | |
| 20-4 | SFUP001-10 | Support, Power Switch Knob | 1 | |
| 21 | SFUM001-11 | Cam, Power Switch | 1 | |
| 21-1 | SFUP001-12 | Support, Power Switch | 1 | |
| 21-2 | SFUM132-07 | Cam, Power Switch Cam | 1 | |
| 22 | SFUM132-05 | Holder, Power Switch | 1 | |
| 23 | SFUM132-06 | Holder, Power Switch | 1 | |
| 23-1 | **XTN3+8B** | Screw, Power Switch Bracket | 2 | |
| 23-2 | **XTN3+16B** | Screw, Power Switch Holder | 1 | |
| 23-3 | **XSN3+10S** | Screw, Power Switch Cam | 1 | |
| 23-4 | **XWC3B** | Washer, Power Switch Cam | 1 | |
| 24 | SFUP132-08 | Mirror | 1 | |
| 25 | SFUP132-04 | Bracket, Panel | 1 | |
| 25-1 | **XTN3+6B** | Screw, Panel Bracket | 1 | |
| 26 | SFKT132-05 | Knob, Power Switch | 1 | |
| 27 | SFUM155M01 | Panel | 1 | ○ |
| 28 | SFKT132-03 | Knob, Operation | 4 | |
| 29 | SFKT132-04 | Knob, Operation | 1 | |
| 30 | SFKT132-01E | Knob, Operation | 1 | |
| 31 | SFKT132-02E | Knob, Operation | 1 | |
| 32 | SFUM132-09 | Felt | 1 | |
| 32-1 | **XWA3B** | Washer, Panel | 4 | |
| 32-2 | **XNG3BS** | Nut, Panel | 4 | |
| 32-3 | **XTN3+8B** | Screw, P.C.B. | 8 | |
| 33 | SFXB132-02 | Spacer, Operation | 2 | |
| 33-1 | SFXB132-01 | Spacer, Operation | 5 | |
| 33-2 | SFXG132-01 | Screw, Operation | 4 | |
| 33-3 | **XNS6JM** | Nut, Operation Spacer | 2 | |
| 33-4 | **XNG4HS1** | Nut, Operation Spacer | 5 | |
| 33-5 | SFQA132-01 | Spring, Operation Knob | 2 | |
| 33-6 | SFQA132-02 | Spring, Operation Knob | 5 | |
| 33-7 | **XUC3FT** | Circlip, Operation Knob | 2 | |
| 33-8 | **XUC25FT** | Circlip, Operation Knob | 5 | |
| 34 | SFMZ132-01Z | D.D. Motor Ass'y | 1 | |
| 35 | SFUK190-01E | Base, Automatic Mechanism | 1 | |
| 35-1 | SFUP190-02 | Bracket, Automatic Mechanism Base | 2 | |
| 36 | SFAU132-01E | Base, Main | 1 | |
| 37 | SFUP132-09 | Bracket, Main Base | 3 | |
| 37-1 | **XSN3+23FZS** | Screw, Main Base Bracket | 4 | |
| 37-2 | **XSN3+14S** | Screw, Main Base Bracket | 4 | |
| 37-3 | **XWG3** | Washer, Main Base Bracket | 4 | |
| 37-4 | **XWG3** | Washer, Main Base Bracket | 4 | |
| 37-5 | **XTN4+35B** | Screw, Main Base | 2 | |
| 37-6 | **XTN3+35B** | Screw, Main Base | 6 | |
| 37-7 | **XWG4** | Washer, Main Base | 2 | |
| 37-8 | **XWG3** | Washer, Main Base | 6 | |
| 38 | SFAZ132-01 | Insulator (A) | 4 | |
| 38-1 | XVG4C18 | Screw, Insulator (A) | 4 | |
| 38-2 | **XTN4+10B** | Screw, Insulator (A) | 4 | |
| 39 | SFGA132-01 | Rubber, Insulator (A) | 4 | |
| 40 | SFQH132-01 | Spring, Insulator (A) | 4 | |
| 41 | SFXG170-02E | Nut, Insulator (A) | 4 | |
| 42 | SFAU132-02A | Bottom, Cover | 1 | |
| 43 | SFGA170-02A | Insulator (B) | 4 | |
| 43-1 | **XTN3+20** | Screw, Bottom Cover | 7 | |
| 43-2 | **XTN3+10BFZ** | Screw, Insulator (B) | 4 | |
| 43-3 | **XWG3** | Washer, Bottom Cover | 7 | |
| 43-4 | **XWG4** | Washer, Insulator (B) | 4 | |
| 44 | **XTN3+8B** | Screw, P.C.B. | 1 | |

## TONE ARM and ARM BASE

| Ref. No. | Part No. | Part Name & Description | Per Set | Remarks |
|---|---|---|---|---|
| TA1 | SFPWG13201K | Balance Weight Ass'y | 1 | |
| TA2 | SFPAM13201K | Tone Arm Ass'y | 1 | |
| TA3 | SFPCC10001K | Head Shell | 1 | |
| TA4 | SFXG829-1 | Screw, Tone Arm Lift Adjustment | 1 | |
| TA5 | SFPRT19001K | Lift Ass'y | 1 | |
| TA5-1 | SFQA829-03 | Spring, Lift Ass'y | 1 | |
| TA6 [M] | SFGK132M01 | Cap, Rubber | 3 | |
| TA6 [MC] | SFGK132-01 | Cap, Rubber | 3 | |
| TA7 | SFPJK13202 | Knob, Anti-skate Force Control | 1 | |
| TA8 | SFPKD13201 | Arm Base | 1 | |
| TA9 | SFPZB13209 | Bracket, Tone Arm | 1 | |
| TA10 | SFPEV13201 | Screw, Tone Arm Bracket | 1 | |
| TA10-1 | SFPZB13211 | Cover, Spring | 1 | |
| TA10-2 | SFPSP13203 | Spring, Tone Arm Bracket Screw | 1 | |
| TA10-3 | SFPZB13212 | Pin, Tone Arm Bracket Screw | 1 | |
| TA10-4 | SFPSP13204 | Spring, Tone Arm Bracket Screw | 1 | |
| TA11 | SFPSH13201 | Support, Anti-skate Force Control | 1 | |
| TA11-1 | XWE3A7BW | Washer, Anti-skate Force Control Support | 1 | |
| TA11-2 | XTN3+5B | Screw, Anti-skate Force Control Support | 1 | |
| TA12 | SFPJK17002 | Cam, Anti-skate Force Control | 1 | |
| TA12-1 | SFPEW13005 | Washer, Anti-skate Force Control Knob | 1 | |
| TA12-2 | XTN26+5B | Screw, Anti-skate Force Control Knob | 1 | |

## PACKINGS

| Ref. No. | Part No. | Part Name & Description | Per Set | Remarks |
|---|---|---|---|---|
| TA13 | SFPGM20001 | Rubber, Cueing Lever | 1 | |
| TA14 | SFPJL13201K | Cueing Lever Ass'y | 1 | |
| TA15 | SFPZB13204 | Plate, Arm Rest | 1 | |
| TA16 | SFPAB13202 | Knob, Arm Lift | 1 | |
| TA17 | SFPJL13203K | Lift Bar Ass'y | 1 | |
| TA17-1 | SFPSP13201 | Spring, Arm Lift Base | 1 | |
| TA17-2 | XWE4A10BW | Washer, Arm Lift Base | 1 | |
| TA17-3 | **XUC3FT** | Circlip, Arm Lift Base | 1 | |
| TA18 | SFPRT13201K | Arm Rest | 1 | |
| TA19 | SFPAB13203 | Plate, Lift | 1 | |
| TA20 | SFPZB13208 | Support, Lift | 1 | |
| TA20-1 | **XTN3+5B** | Screw, Lift Support | 2 | |
| TA21 | SFPAB13213K | Base, Arm Lift | 1 | |
| TA21-1 | **XSN3+5S** | Screw, Arm Lift Base | 2 | |
| TA21-2 | SFPSP13202 | Spring | 1 | |
| TA21-3 | **XSN3+3S** | Screw, Spring | 1 | |
| TA21-4 | **XWA26B** | Washer, Arm Rest | 1 | |
| TA21-5 | **XNG26BFN** | Nut, Arm Rest | 1 | |
| TA22 [M] | SFPAB13218K | PU Output Cord Ass'y | 1 | |
| TA22 [MC] | SFPAB13215K | PU Output Cord Ass'y | 1 | |
| TA22-1 | XWA3B | Washer, P.C.B. Ass'y | 2 | |
| TA22-2 | XSN3+3S | Screw, P.C.B. Ass'y | 2 | |
| TA23 | SFPAB15209A | Tone Arm Fixing Plate Ass'y | 1 | |
| TA23-1 | SFPSP00101 | Spring, Anti-Skating | 1 | |
| | | | 1 | |
| TA23-3 | **XSN3+6S** | Screw | 2 | |
| | | **ACCESSORIES** | | |
| A1 [M] | SFNU155M01 | Instruction Book | 1 | ○ |
| A1 [MC] | SFNU155C01 | Instruction Book | 1 | ○ |
| A2 | SFWE154A1 | Adaptor, 45 r.p.m | 1 | |
| A3 | SFCFB20502 | Screw driver | 1 | |
| A4 | SFWO010 | Oil | 1 | |
| A5 | SFPEV7803 | Screw, Cartridge | 2 | |
| A5-1 | SFPEV10005 | Screw, Cartridge | 2 | |
| A5-2 | SFPEV10009 | Screw, Cartridge | 2 | |
| A5-3 | SFPEN9200 | Nut, Cartridge | 2 | |
| A5-4 | SFYF05A06 | Polyethylene Bag | 1 | |
| | | **PACKING PARTS** | | |
| P1 [M] | SFHP155M01 | Carton | 1 | |
| P1 [MC] | SFHP155C01 | Carton | 1 | |
| P2 | SFHH132-01 | Pad, Front | 1 | |
| P3 | SFHH132-02 | Pad, Rear | 1 | |
| P4 | SFHD132-02 | Pad, Turntable | 1 | |
| P5 | SFHD132-01 | Pad, Top | 1 | |
| P6 | SFHH170-03 | Parts Box | 1 | |
| P7 | SFHD170-03 | Pad, Top, Parts Box | 1 | |
| P7-1 | SFYC22A30 | Polyethylene Cover | 1 | |
| P8 | XST6D30B | Screw, Clamp | 3 | |
| P9 | SFYF60A60 | Polyethylene Bag, Player Unit | 1 | |
| P9-1 | SFYH40X45 | Polyethylene Bage Turntable | 1 | |
| P9-2 | SFYH10X30 | Polyethylene Bag, AC Cord | 2 | |


P5 SFHD132 01
P7 SFHD170 03
A4 SFWO010
A5 SFPEV7803(×2)
1 SFAD132 01A
A5 1 SFPEV10005(×2)
A5 2 SFPEV10009(×2)
A1
A3 SFCFB20502
A5 4 SFYF05A06
A5 3 SFPEN9200(×2)
3
Balance Weight
Head Shell
P4 SFHD132 02
A2 SFWE154A1
4 SFTE132 01A
P7 1 SFYC22A30
P9 1 SFYH40X45
P3 SFHH132 02
P9 SFYF60A60
P6 SFHH170 03
MOTOR COVER SFHD001 04
P9 2 SFYH10X30(×2)
PARTS BOX
P8 XST6D30B(×3)
P2 SFHH132 01
P1